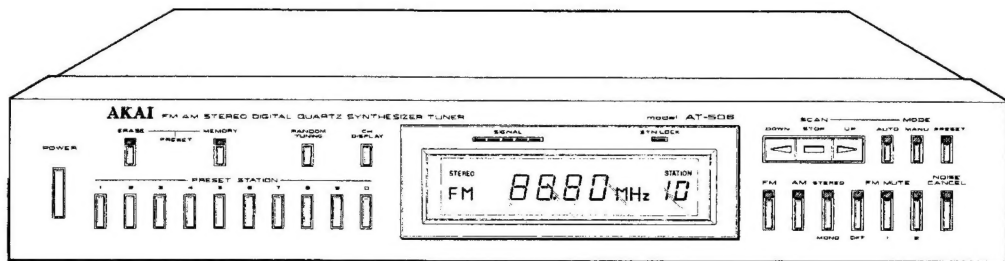
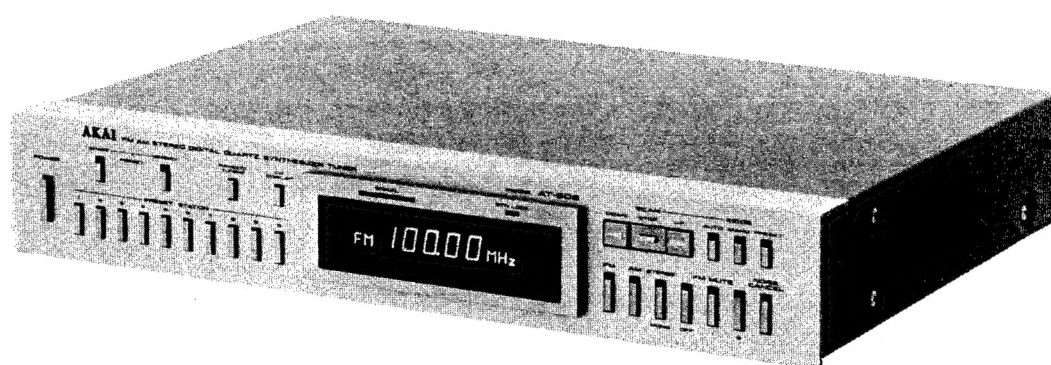


AKAI SERVICE MANUAL



FM AM STEREO DIGITAL QUARTZ SYNTHESIZER TUNER

MODEL **AT-S06**



FM AM STEREO DIGITAL QUARTZ SYNTHESIZER TUNER

MODEL AT-S06

ALSO APPLICABLE TO BLACK PANEL MODEL

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SECTION 1

SERVICE MANUAL

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

I . TECHNICAL DATA

FM TUNER SECTION

FREQUENCY RANGE	87.4 MHz to 108.1 MHz
SENSITIVITY (IHF)	1.6 μ V
CAPTURE RATIO	1.1 dB
SELECTIVITY (IHF)	More than 85 dB
IMAGE REJECTION	More than 100 dB (98 MHz)
IF REJECTION	More than 95 dB (98 MHz)
SPURIOUS REJECTION	More than 100 dB (98 MHz)
AM SUPPRESSION	70 dB
SIGNAL TO NOISE RATIO	80 dB
HARMONIC DISTORTION	
MONO	Less than 0.07% (100% modulation)
STEREO	Less than 0.08% (100% modulation)
MUTING	Level Control (8 μ V to 50 μ V/Switchable to ON-OFF)
STEREO SEPARATION	More than 55 dB (1 kHz)
SUB CARRIER SUPPRESSION	More than 80 dB
OUTPUT VOLTAGE	Variable 0 to 1.5 V (100% modulation)
ANTENNA INPUT IMPEDANCE	300 ohms balanced, 75 ohms unbalanced

AM TUNER SECTION

FREQUENCY RANGE	530 kHz to 1610 kHz - U.S.A. and Canada. 522 kHz to 1611 kHz - other countries.
SENSITIVITY (IHF)	150 μ V/m (bar antenna)
SELECTIVITY (IHF)	More than 30 dB
IMAGE REJECTION	More than 85 dB (1,000 kHz)
IF REJECTION	More than 75 dB
SIGNAL TO NOISE RATIO	More than 57 dB
OUTPUT VOLTAGE	Variable 0 to 0.5 V (30% modulation)
ANTENNA	Built-in ferrite bar antenna

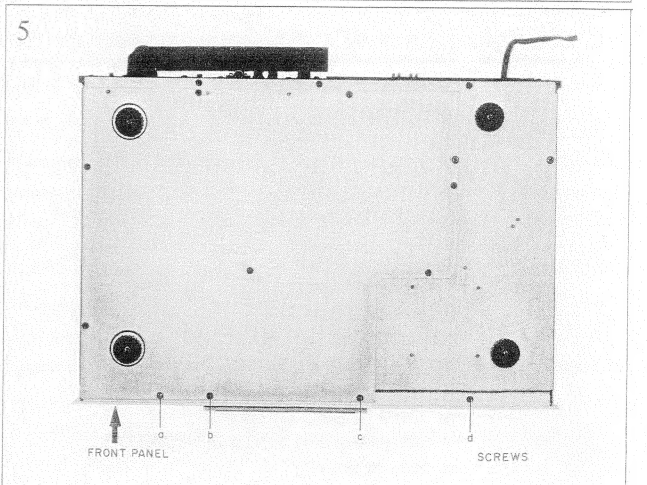
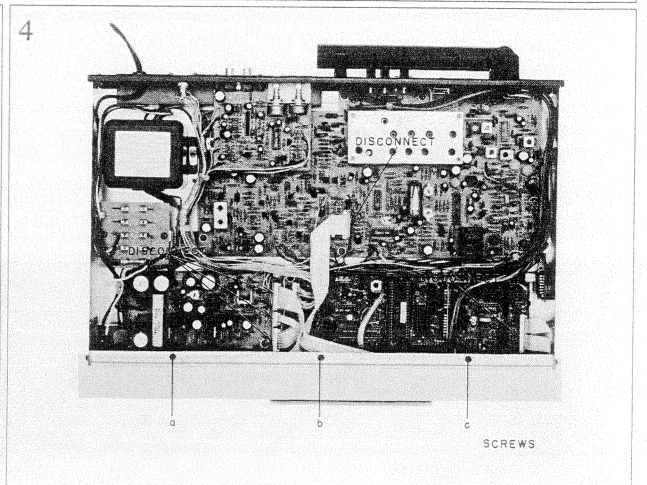
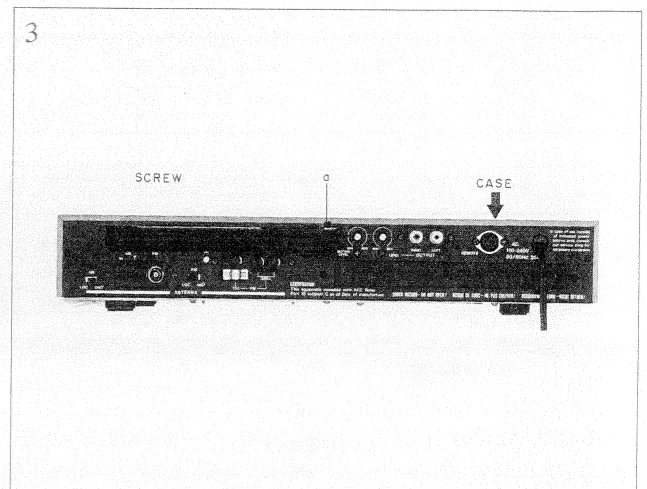
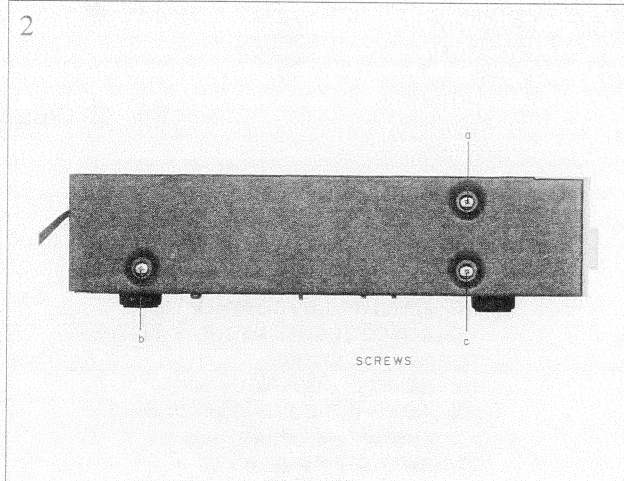
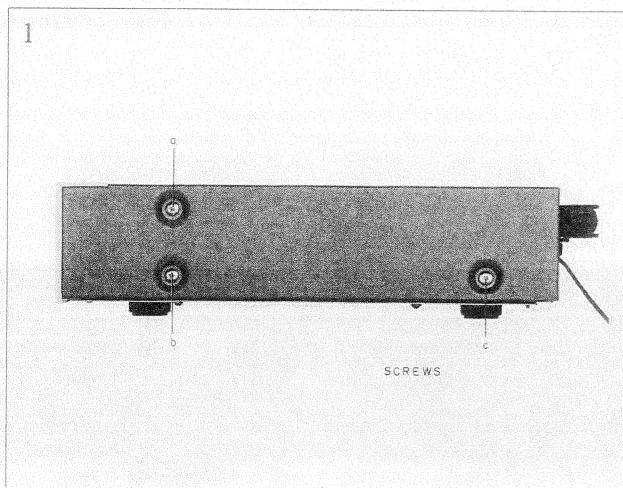
MISCELLANEOUS

POWER REQUIREMENTS	120V, 60 Hz for Canada and U.S.A. 220V, 50 Hz for Europe except UK 240V, 50 Hz for UK and Australia 110V/220V/240V, 50/60Hz internally switchable for the other countries
POWER CONSUMPTION	25W
SEMICONDUCTORS	Transistors 76, Diodes 74, FETs 6, ICs 30
DIMENSIONS	440 (W) x 78 (H) x 326.5 (D) mm (17.3 x 3.1 x 12.9) inches
WEIGHT	5.8 kg (13 lbs)

* For improvement purposes, design and specifications are subject to change without notice.

II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.



III. CONTROLS

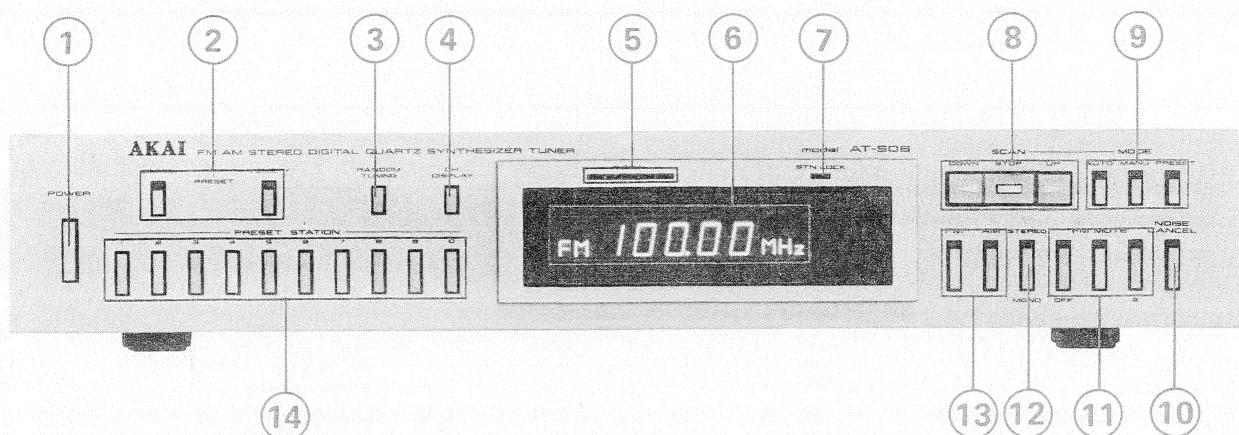


Fig. 1 Controls

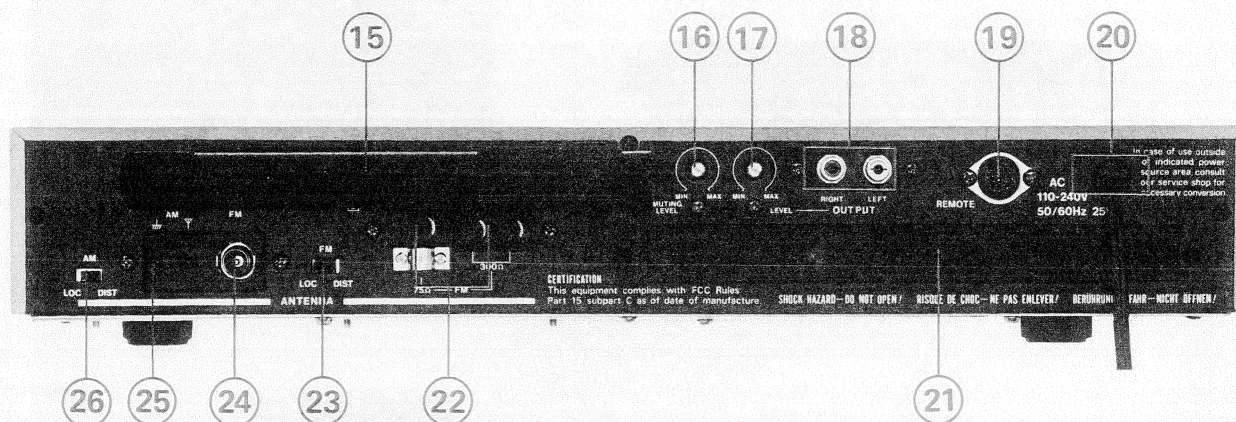


Fig. 2 Controls

- | | |
|---|---|
| 1. POWER SWITCH | 15. AM BAR ANTENNA |
| 2. PRESET SWITCHES | 16. FM MUTE LEVEL ADJUSTER |
| 3. RANDOM TUNING KEY | 17. OUTPUT LEVEL ADJUSTER (Stereo) |
| 4. CH (Channel) DISPLAY KEY | 18. OUTPUT JACKS |
| 5. SIGNAL LED INDICATOR | 19. REMOTE CONTROL JACK |
| 6. DIGITAL FL DISPLAY | 20. AC POWER CORD (Some models are equipped with an AC inlet) |
| 7. STN (Station) LOCK INDICATOR | 21. BATTERY CONTAINER |
| 8. SCAN KEYS | 22. FM ANTENNA TERMINALS (75/300 ohms) |
| 9. SCAN MODE SELECTORS | 23. FM ANTENNA LOC/DIST SWITCH |
| 10. NOISE CANCEL SWITCH | 24. FM EXTERNAL ANTENNA JACK |
| 11. FM MUTE SELECTOR | 25. AM EXTERNAL ANTENNA JACK |
| 12. FM MODE SELECTOR (STEREO/MONO) | 26. AM ANTENNA LOC/DIST SWITCH |
| 13. BAND SELECTORS (FM/AM) | |
| 14. PRESET STATION (and RANDOM TUNING) KEYS | |

IV. PRINCIPAL PARTS LOCATION

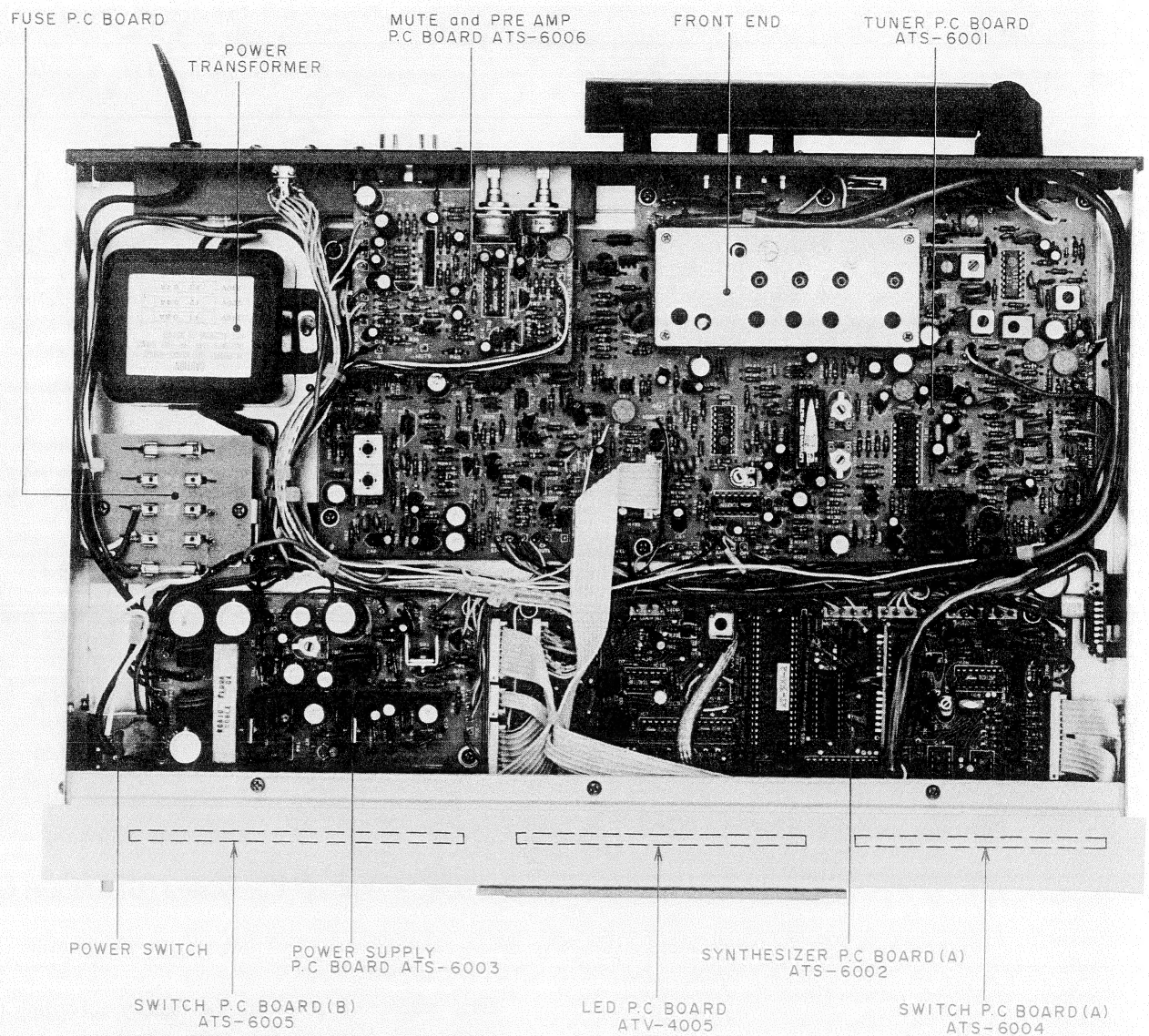


Fig. 3 Top View

V. VOLTAGE CONVERSION

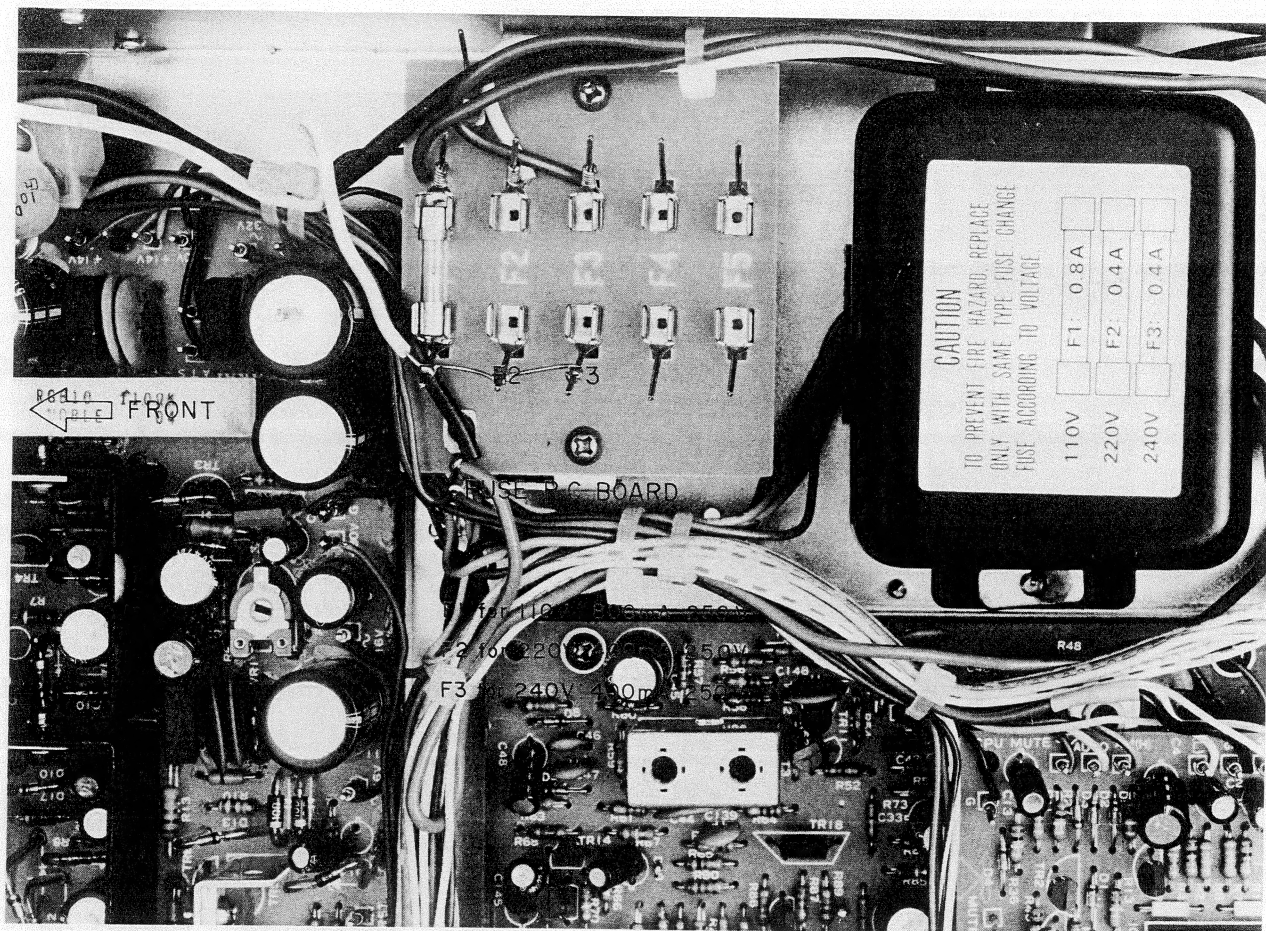


Fig. 4 Voltage Conversion (U/T Model Only)

Each machine is preset at the factory according to its destination. However, if voltage conversion is necessary, it is accomplished as follows:

1. Disconnect the power cord.
2. Remove the holding screws and upper cover.
3. Remove existing Line Voltage Fuse and insert required Line Voltage Fuse in the proper fuse holder.

VI. ADJUSTMENTS

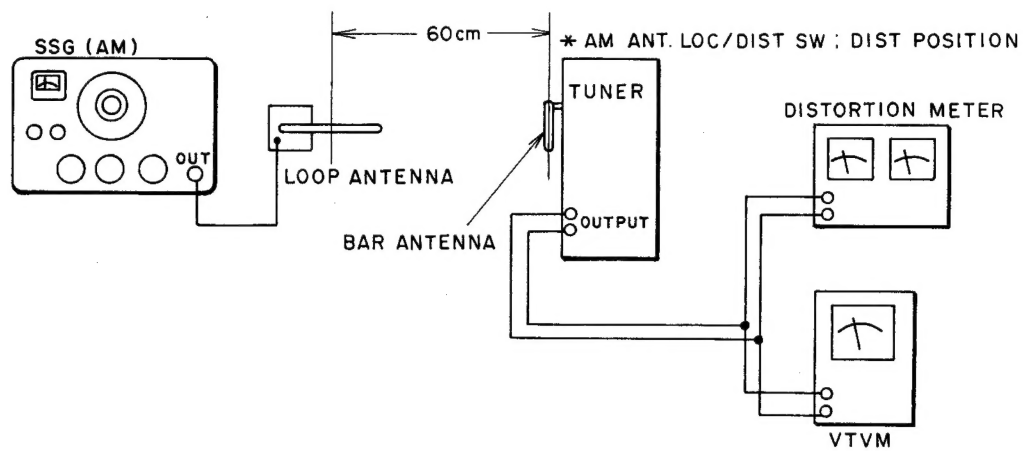


Fig. 5 Instrument Connections (AM)

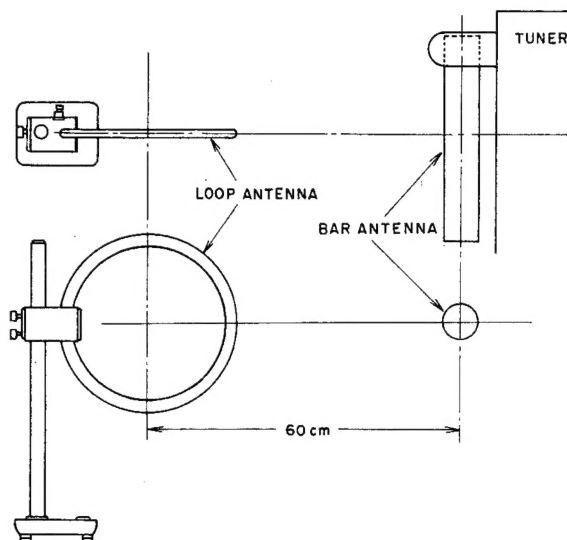


Fig. 6 Setting of Loop Antenna

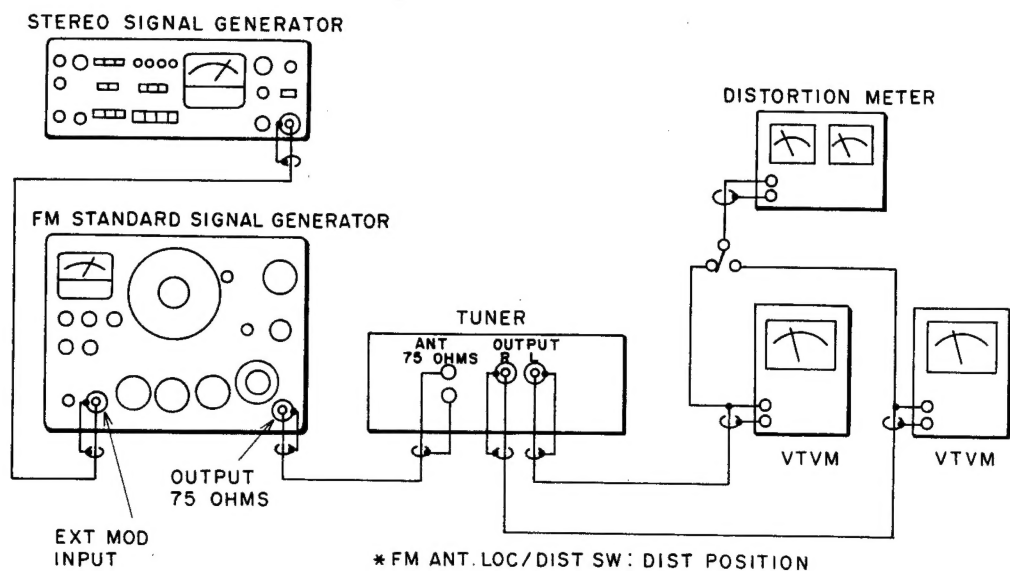


Fig. 7 Instrument Connections (FM)

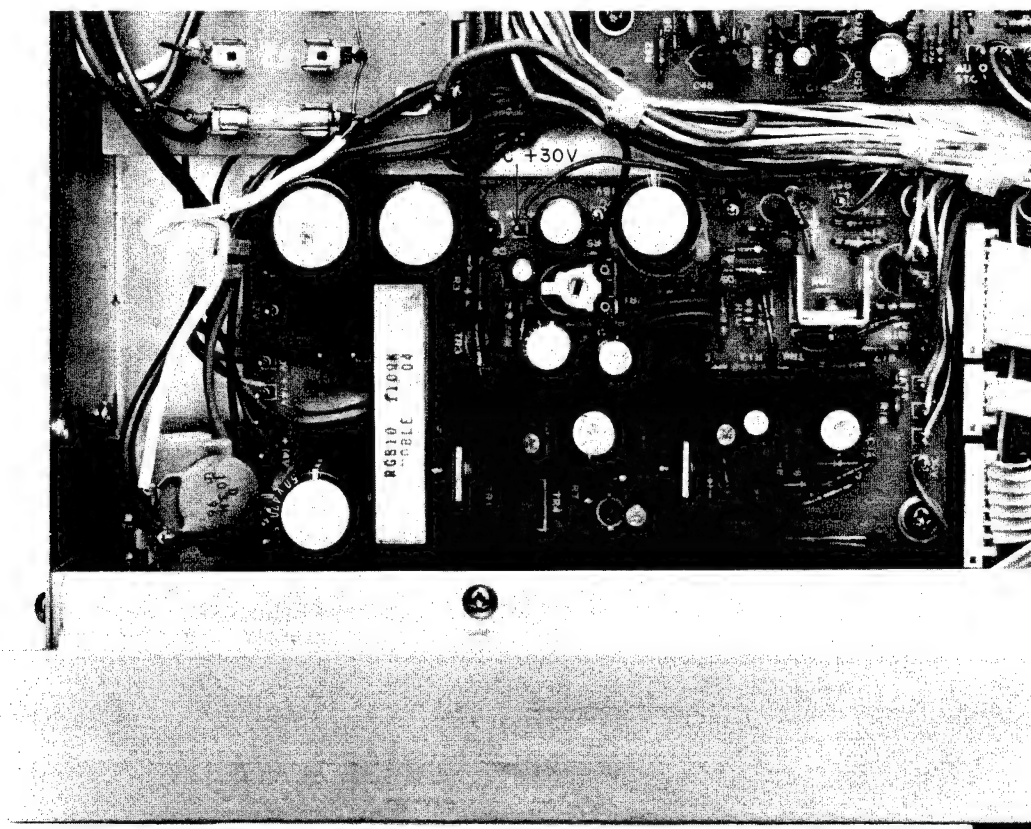


Fig. 8 Adjustment Points
Power Supply P.C Board (ATS-6003)

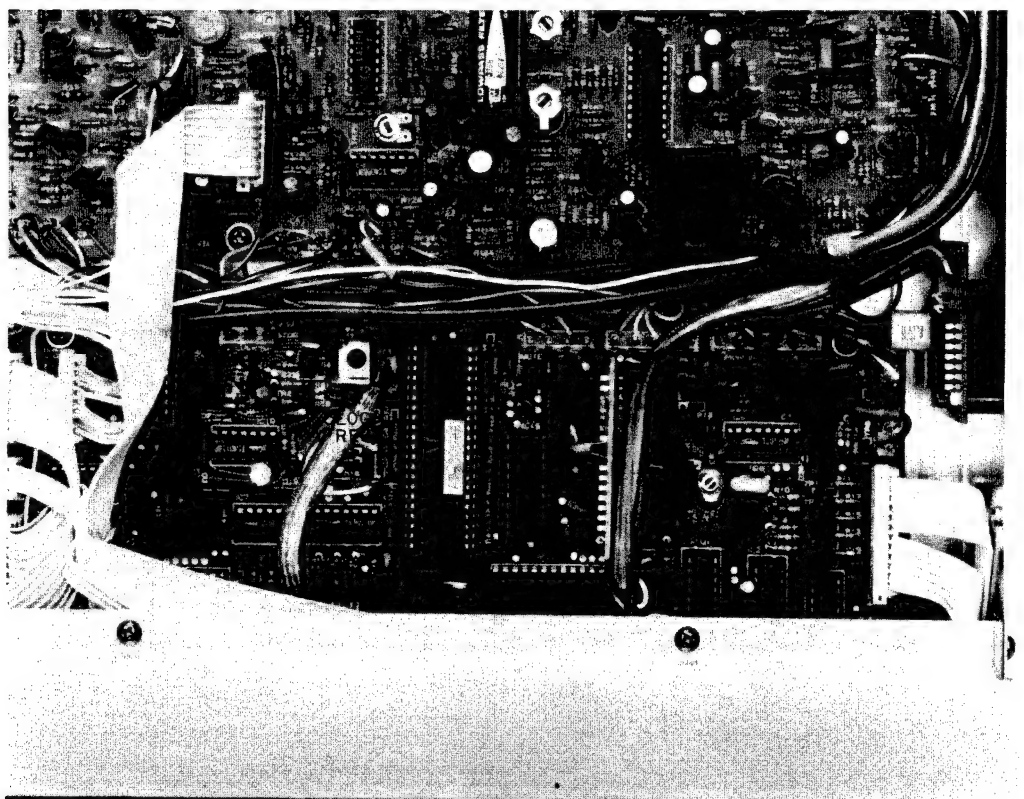


Fig. 9 Adjustment Points
Synthesizer P.C Board (A) (ATS-6002)

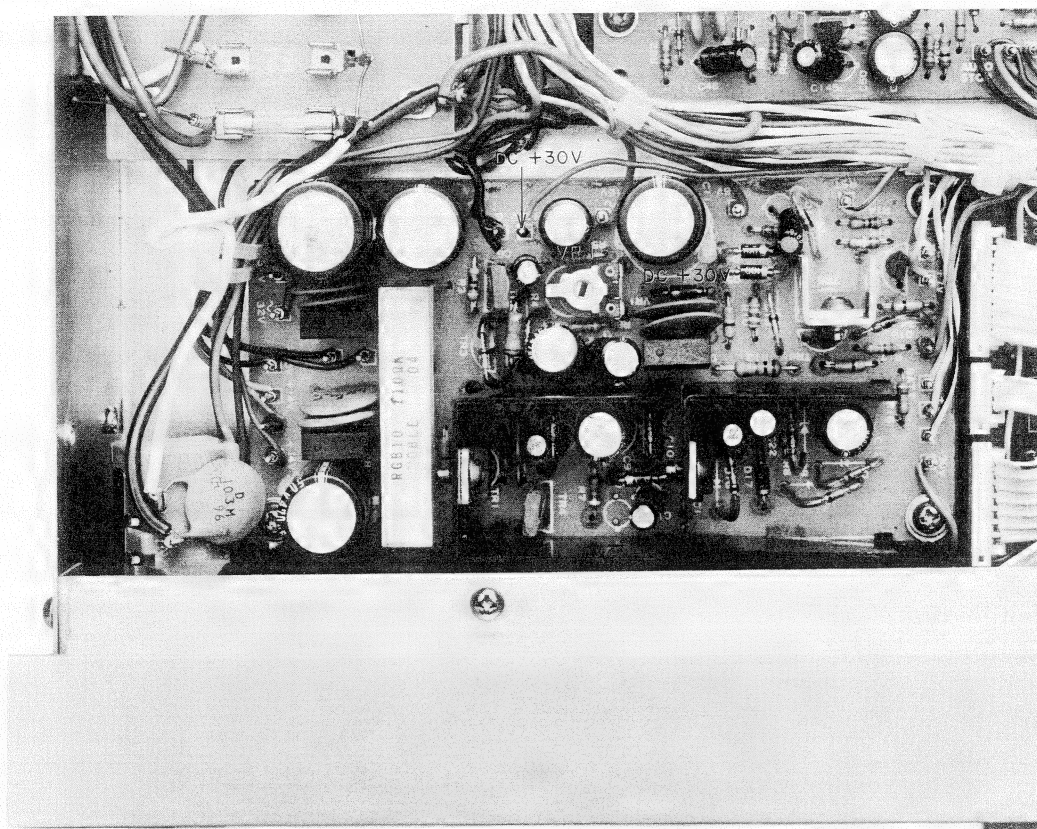


Fig. 8 Adjustment Points
Power Supply P.C Board (ATS-6003)

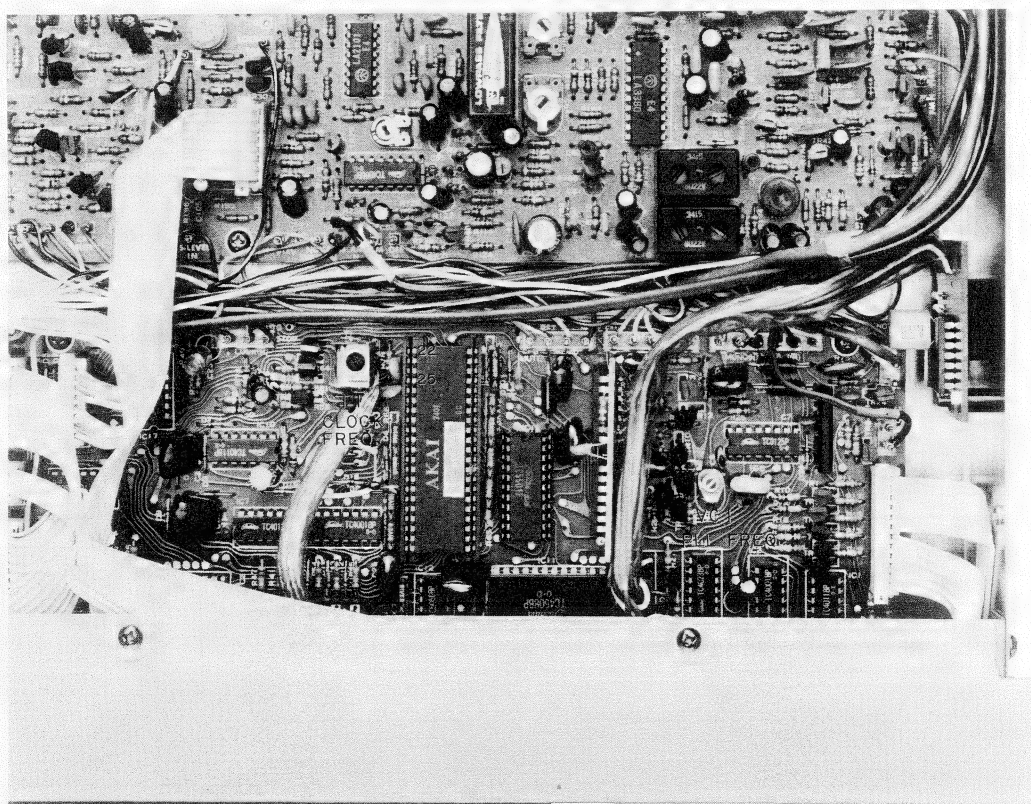


Fig. 9 Adjustment Points
Synthesizer P.C Board (A) (ATS-6002)

1. POWER SUPPLY ADJUSTMENT (Refer to Fig. 8)

Step	Adjustment Item	Test Point	Adjustment Parts	Result & Remarks
1	DC +30V	Terminal 11	VR1 (ATS-6003)	DC +30V (Voltmeter)

2. AM SECTION ADJUSTMENT (Refer to Figs. 5, 6, 9 and 10)

Step	Adjustment Item	Test Point	Adjustment Parts	Result & Remarks
1	Clock Freq.	IC16 ②⑤ (ATS-6002)	T1 (ATS-6002)	420 kHz. (Note 2) (Frequency Counter)
2	AM OSC	AM OSC OUT	T6	720 kHz. Connect TP-3 to GND before making adjustment. (Frequency Counter)
3	AM IF	AM OUT	T7, T8	Maximum Output 1000 kHz, 50 dB from SSG is used as an input. (VTVM)
4	Low Range Sensitivity 600 kHz (603 kHz)	Output	Bar Ant. Core T5	1) Set the digital display to 600 kHz (603 kHz). 2) Adjust the output of SSG so that the distortion factor becomes less than 10% at 600 kHz (603 kHz), 30% modulation and 76 dB. (SSG, Distortion Meter, Loop Ant. and VTVM)
5	High Range Sensitivity 1400 kHz (1404 kHz)	Output	VC1, VC2	Adjust at 1400 kHz (1404 kHz) as in the case of Step 4.
6				Repeat the adjustments described in Steps 4 and 5.
7	Signal LED	Signal LED	VR7	1) Make adjustment in such a way that under the condition described in Step 5, the 4th signal LED is lighted when ATT of SSG is set to 100 dB. 2) Check and ensure that the 5th signal LED is lighted when ATT is increased to more than 101 dB. (SSG).
8	Auto Stop Level	Digital Display	VR8	1) Adjust the output of SSG to 1000 kHz (999 kHz), 86 dB \pm 6 dB. 2) Adjust the auto stop level so that the auto scanning stops at 1000 kHz (999 kHz) of the digital display. (SSG Loop Ant.)

- NOTE:
1. The measured values shown in the following table are obtained under the condition where the loop antenna is used and SSG has the open voltage circuit, 0 dB = 1 μ V and output impedance of 50 ohms.
 2. When adjusting the clock frequency, make sure not to shortcircuit the terminal of IC16.
 3. Unless specified otherwise, test points and adjustment parts are provided on the Tuner P.C Board (Fig. 10).
 4. Set Output Level Volume on the rear panel to the maximum position.

3. FM SECTION ADJUSTMENT (Refer to Figs. 7, 9, 10 and 11)

Step	Adjustment Item	Test Point	Adjustment Parts	Result & Remarks
1	PLL Freq.	FM F Out	VC1 (ATS-6002)	Make adjustment until FM F Out becomes 98.100MHz when the digital display indicates 87.40MHz. (Frequency Counter)
2	MPX PLL Free Running Freq.	TP5	VR6	1) Install a resistor, 100 kohms, in series with and between TP-5 and frequency Counter. 2) 76kHz \pm 50Hz (Frequency Counter)
3	Central Voltage 1	TP2	T2	1) Send 98MHz, 60dB (Mono.) from SSG to Ant. Input. 2) Adjust the digital display to 98MHz. 3) TP2 = 6.0V (SSG, Voltmeter)
4	Central Voltage 2	TP1	T3b	1) Send 98MHz, 60dB (Mono.) from SSG to Ant. Input. 2) Adjust the digital display to 98 MHz 3) TP1 = 0V (SSG, Voltmeter)
5	Distortion 1	Output	T3a	1) Send 98MHz, 60dB (Mono.) from SSG to Ant. Input. 2) Adjust the digital display to 98MHz. 3) Minimum distortion (SSG, Distortion Meter)
6				Readjust in Steps 4 and 5.
7	Distortion 2	Output	T5 (Front End)	1) Send 98MHz, 60dB (Mono.) from SSG to Ant. Input. 2) Adjust the digital display to 98MHz. 3) Minimum distortion (SSG, Distortion Meter)
8	Low Range Sensitivity 90MHz	Output	T1 to T4 (Front End)	1) Send 90MHz (Mono.) from SSG to Ant. Input. 2) Adjust in such a way that when the distortion factor is 3%, ATT of SSG is reduced to less Than 7dB. (SSG, Distortion Meter)
9	High Range Sensitivity 106MHz	Output	TC1 to TC4 (Front End)	Make adjustment at 106MHz as in the case of Step 8.
10				Readjust in Steps 8 and 9.
11	Pilot Cancel	Output	T9, VR3	1) Send only the pilot signal, 98MHz, 60dB from SSG to Ant. Input. 2) Minimum output. (Less than -55dB) (SSG, VTVM)

Step	Adjustment Item	Test Point	Adjustment Parts	Result & Remarks
12	Stereo Separation (Right to Left)	Output	VR4	1) Send 98MHz, 60dB, R-ch from SSG to Ant. Input. 2) Set L-ch output to the minimum value. (SSG, VTVM)
13	Stereo Separation (Left to Right)	Output	VR5	1) Send 98 MHz, 60 dB, L-ch from SSG to Ant. Input. 2) Set R-ch output to the minimum value. (SSG, VTVM)
14	Stereo Separation (at Noise Cancel "ON")	Output	VR9	1) Send 98 MHz, 60 dB (Stereo) from SSG to Ant. Input. 2) Set the stereo separation to the optimum point. (SSG, VTVM)
15	Signal LED	Signal Led	VR2	Send 98 MHz, 40 dB from SSG to Ant. Input and make adjustment until the 5th LED is lighted. (SSG)
16	Muting 1	Output	VR1	Make adjustment until Mute-1 is set "ON" when 98 MHz, 22 dB \pm 6 dB is sent from SSG to Ant. Input. (SSG, VTVM)
17	Muting 2	Output	VR3 (ATS-6006)	1) Set Mute Volume on the rear panel to the maximum position. 2) Make adjustment until Mute-2 is set "ON" when 98 MHz, 34 dB \pm 6 dB is sent from SSG to Ant. Input. (SSG, VTVM)

- NOTES:
1. Unless specified otherwise, test points and adjustment parts provided on the Tuner P.C Board (Fig. 10).
 2. The measured values shown in the following table are obtained under the condition where SSG has the open voltage circuit, 0dB = 1 μ V and output impedance of 75 ohms and is connected to the ant. input (75 ohms) of tuner.
 3. Set Output Level Volume on the rear panel to the maximum position.

VII. CLASSIFICATION OF VARIOUS P.C BOARDS

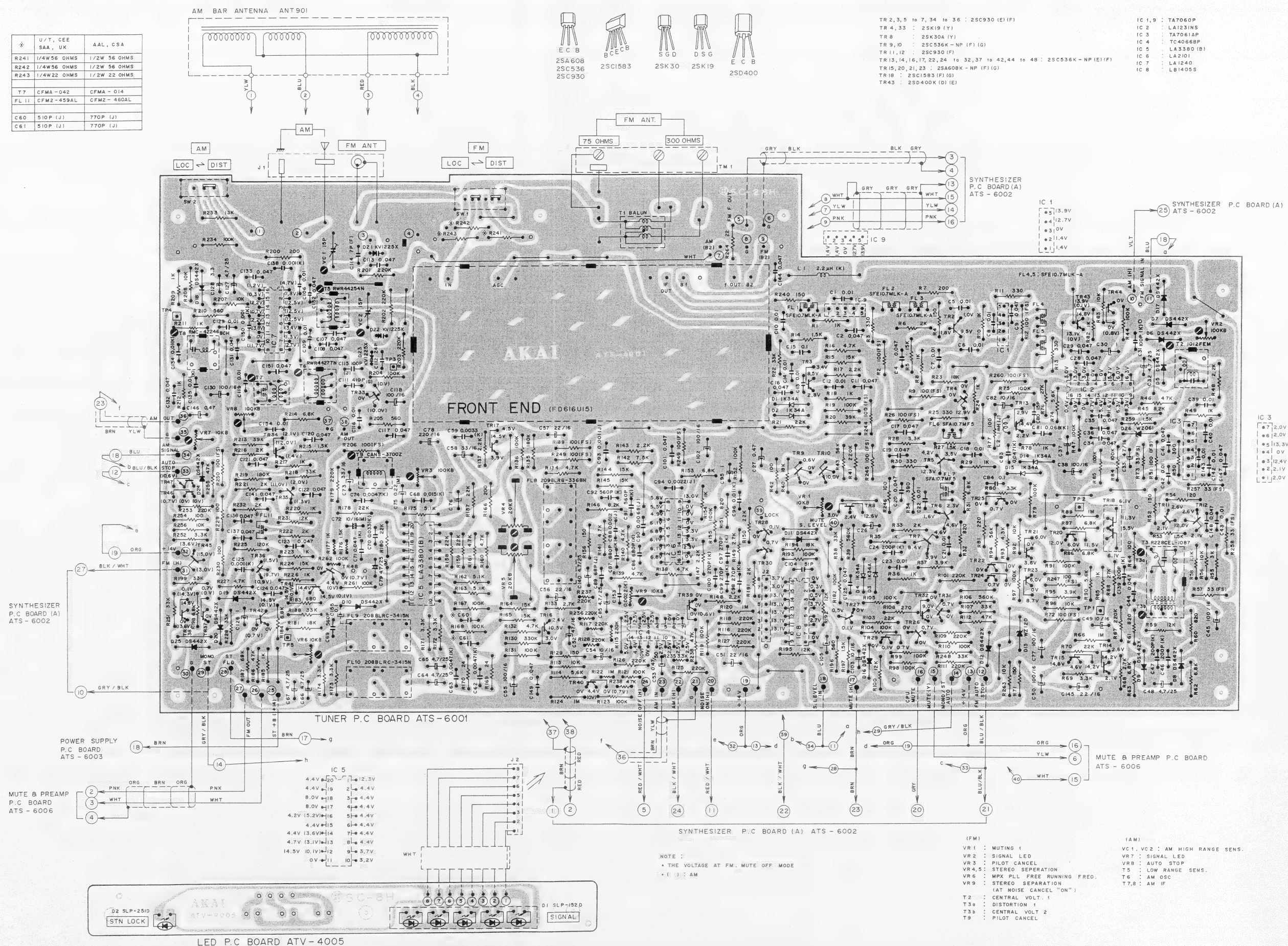
1. P.C BOARD TITLES AND IDENTIFICATION NUMBERS

P.C Board Title	P.C Board Number
Tuner P.C Board	ATS-6001
Synthesizer P.C Board (A)	ATS-6002
Power Supply P.C Board	ATS-6003
Switch P.C Board (A)	ATS-6004
Switch P.C Board (B)	ATS-6005
Mute and Pre Amp P.C Board	ATS-6006
Synthesizer P.C Board (B)	ATS-6032
Synthesizer P.C Board (C)	ATS-6033
LED P.C Board	ATV-4005
Battery P.C Board (A)	ATV-4007
Battery P.C Board (B)	ATS-8039

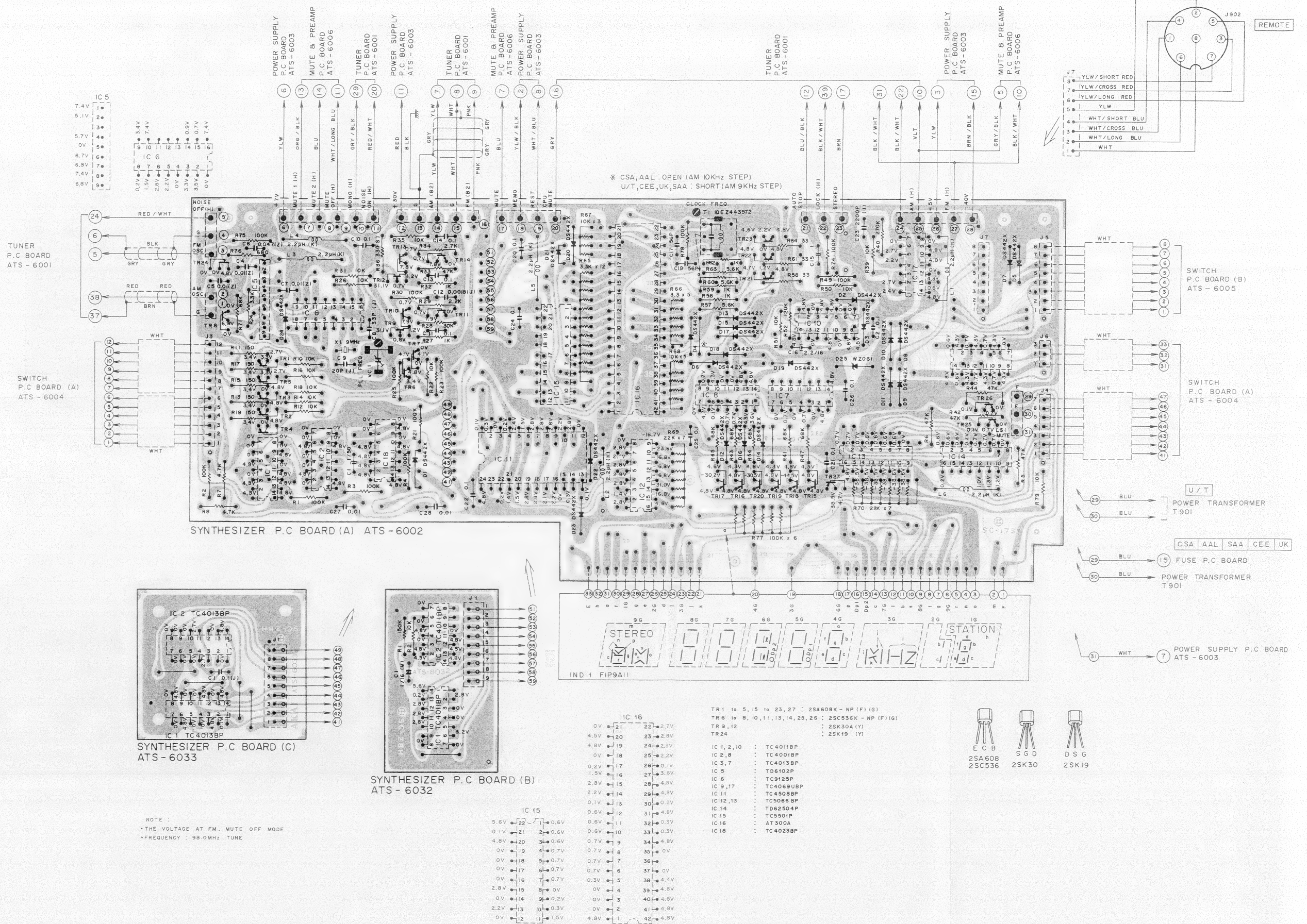
1) Tuner P.C Board ATS-6001 and LED P.C Board ATV-4005

1) Tuner P.C Board ATS-6001 and LED P.C Board ATV-4005

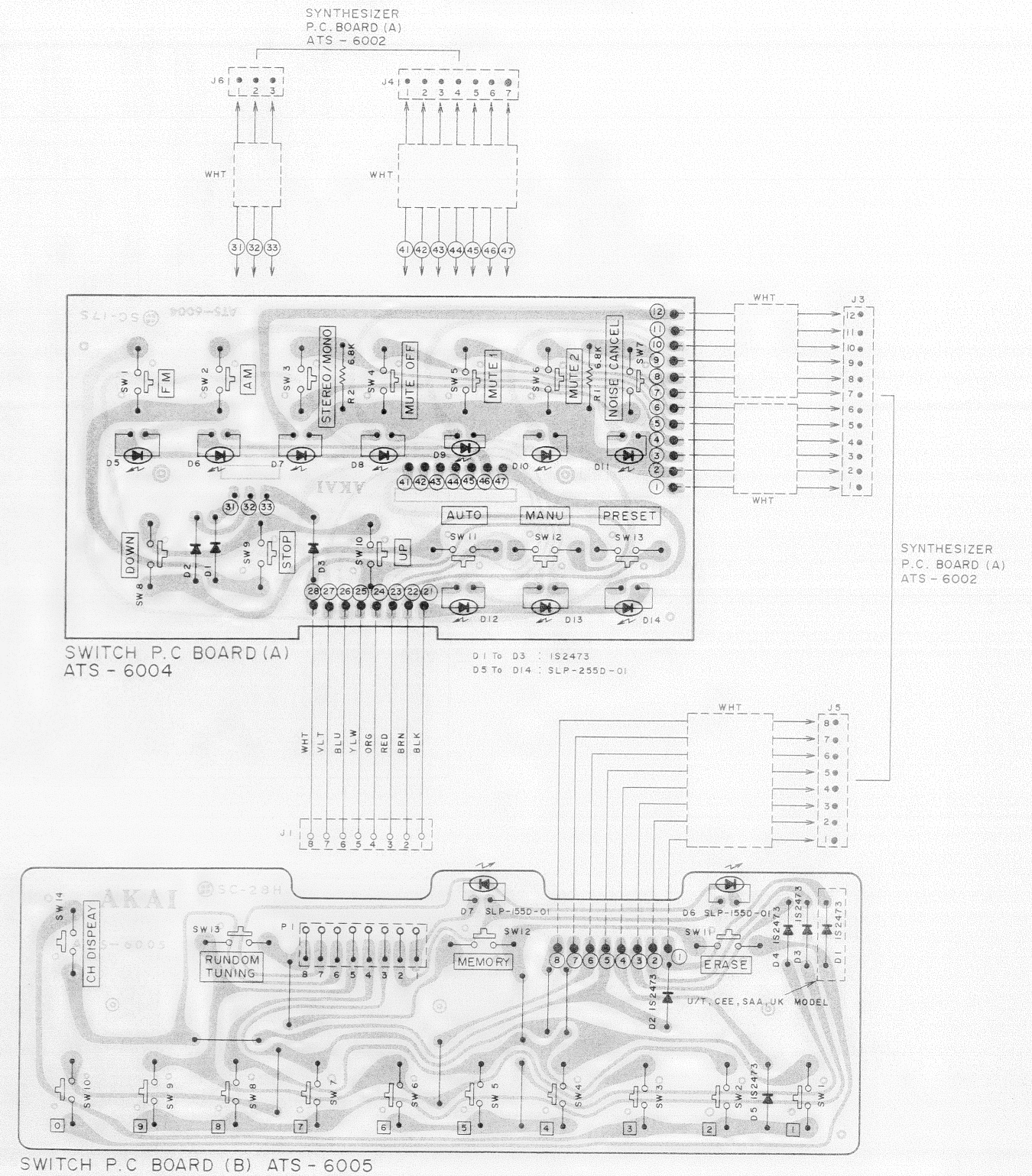
\dot{X}	U/T, CEE SAA, UK	AAL, CSA
R241	1/4W56 OHMS	1/2W 56 OHMS
R242	1/4W56 OHMS	1/2W 56 OHMS
R243	1/4W22 OHMS	1/2W 22 OHMS
T7	CFMA-042	CFMA-014
FL 11	CFM2-459AL	CFM2-460AL
C60	510P (J)	770P (J)
C61	510P (J)	770P (J)



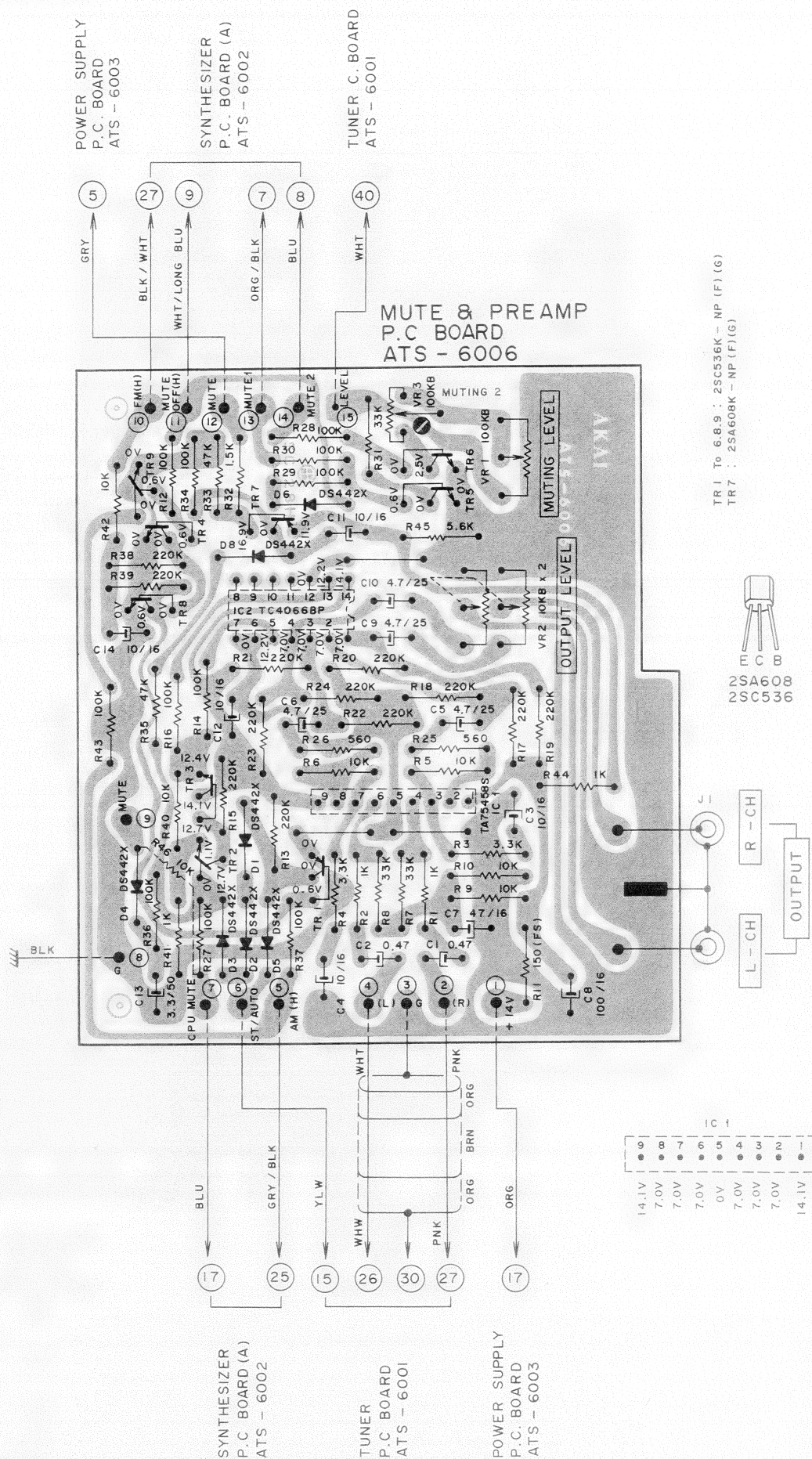
2) Synthesizer P.C Board (A) ATS-6002 (2ED), Synthesizer P.C Board (B) ATS-6032 and Synthesizer P.C Board (C) ATS-6033



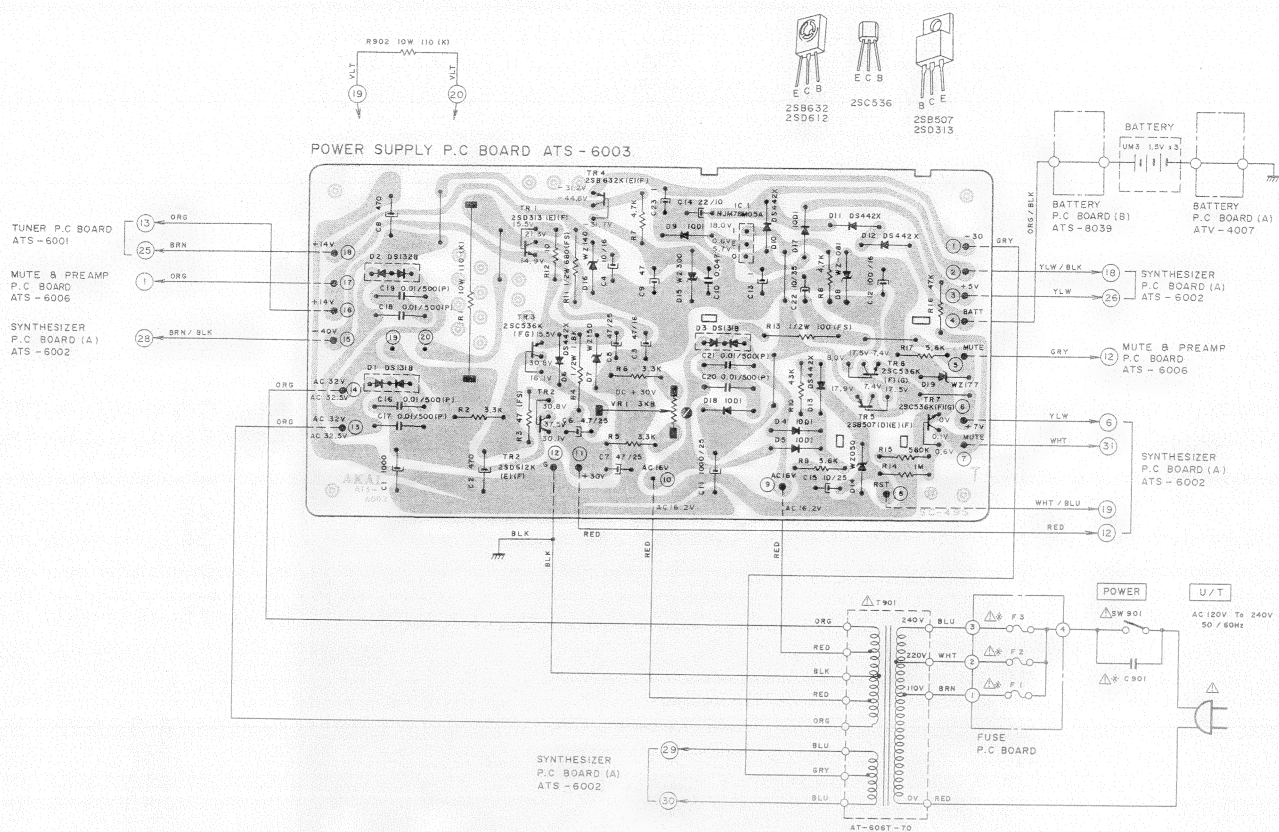
3) Switch P.C Board (A) ATS-6004 and Switch P.C Board (B) ATS-6005



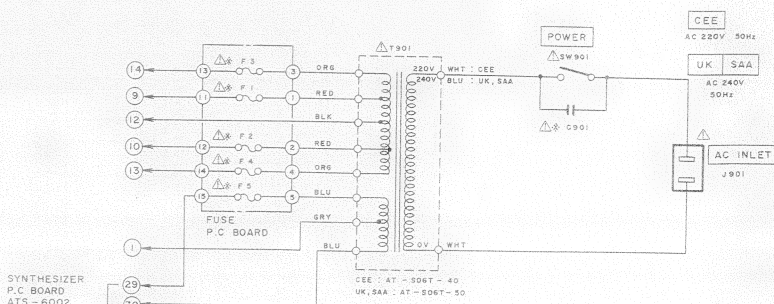
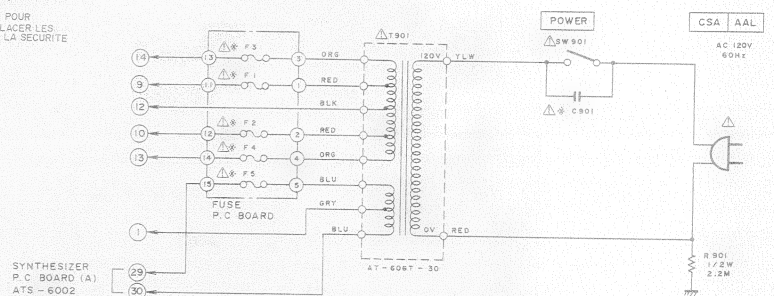
4) Mute and Pre Amp P.C Board ATS-6006



5) Power Supply P.C Board ATS-6003



WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
AVERTISSEMENT: Δ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRÉ DE SÛRETÉ DE L'APPAREIL, NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SÛRETÉ QUE PAR DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.



SECTION 2

PARTS LIST

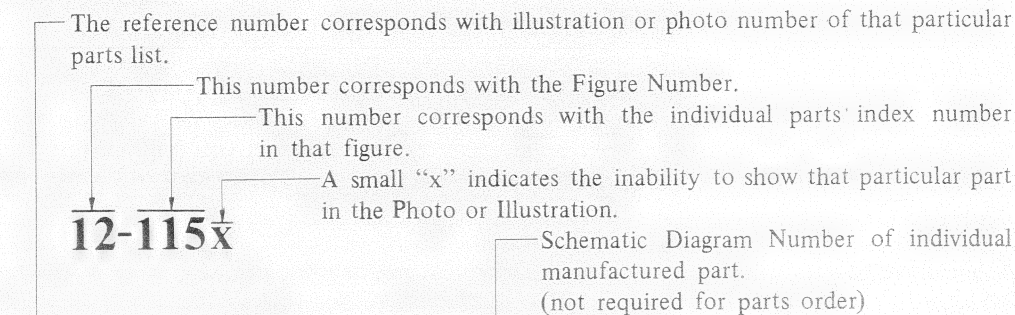
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3. SYNTHESIZER P.C BOARD (ATS - 6002) BLOCK	33
4. SYNTHESIZER P.C BOARD (B) (ATS - 6032) BLOCK	33
5. SYNTHESIZER P.C BOARD (C) (ATS - 6033) BLOCK	33
6. POWER SUPPLY P.C BOARD (ATS - 6003) BLOCK	33
7. MUTE AND PRE AMP P.C BOARD (ATS - 6006) BLOCK	33
8. ASSEMBLY BLOCK	34
9. FRONT PANEL BLOCK	36
10. FINAL ASSEMBLY BLOCK	38
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Resistor and Capacitor which is not listed in this parts list, please refer to
COMMON LIST FOR SERVICE PARTS.

HOW TO USE THIS PARTS LIST

1. This parts list is compiled by various individual blocks based on assembly process.
2. When ordering parts, please describe parts number, serial number, and model number in detail.
3. How to read list.



Ref. No.	Parts No.	Description	Schematic No.
FLYWHEEL BLOCK #13			
12-115x	800425	Flywheel Block Assy. Comp.	RDG #13
12-116	244506	Flywheel Only	RD-233
12-117x	244754	Felt, Flywheel	RD-275
12-118	251324	Main Metal Case	RD-236
12-119	253080	Main Metal	RD-237

4. The symbol numbers shown on the P.C. Board list can be matched with the Composite Views of components of the Schematic Diagram or Service Manual.
5. The indications of Resistors and Capacitors in the photos of P.C. Board are being eliminated.
6. The shape of the parts and parts name, etc. can be confirmed by comparing them with the parts shown on the Electrical Parts Table of P.C. Board.
7. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List.
It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index. (meaning of ref. no. outlined in Item 3 above).
8. Utilize separate "Price List for Parts" to determine unit price. The most simple method of finding parts Price is to utilize the reference number.

CAUTION:

1. When placing an order for parts, be sure to list the parts no. model no., and description. There are instances in which if any of this information is omitted, parts cannot be shipped or the wrong parts will be delivered.
2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
3. Because parts number and parts unit supply in the Preliminary Service Manual (Basic Parts List) may be partially changed, please use this parts list for all future reference.

WARNING: △ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMEMNDED PARTS.

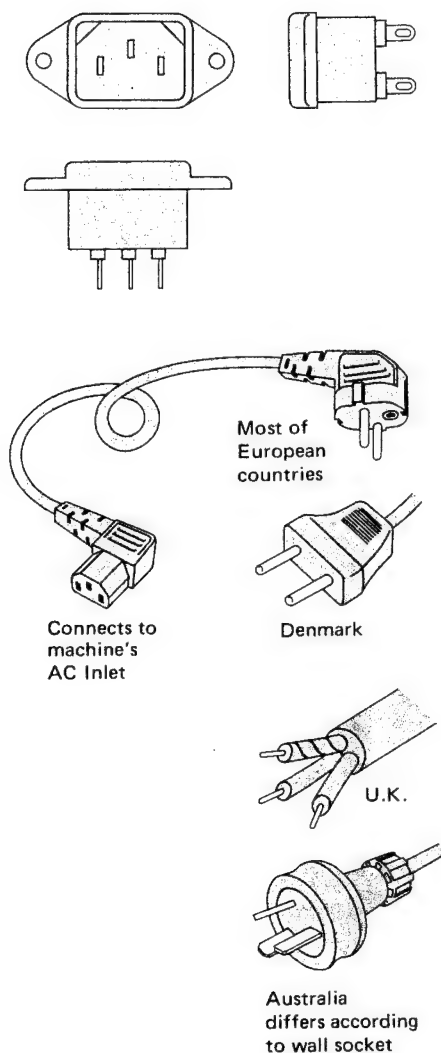
AVERTISSEMENT: △ IL INDIQU LES COMPOSANTS CRITIQUES DE SURETE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

AC INLET SYSTEM

This model is equipped with an AC INLET SYSTEM. Please refer to the AC INLET SYSTEM CHART below for the specific type. By the AC INLET SYSTEM, AC (mains) cord can be connected to and disconnected from the model because the model is provided with socket exclusively for AC (mains) cord on its main body. Please note, however, that certain models are not equipped with this system and has a built-in AC (mains) cord as before.

AC INLET SYSTEM CHART

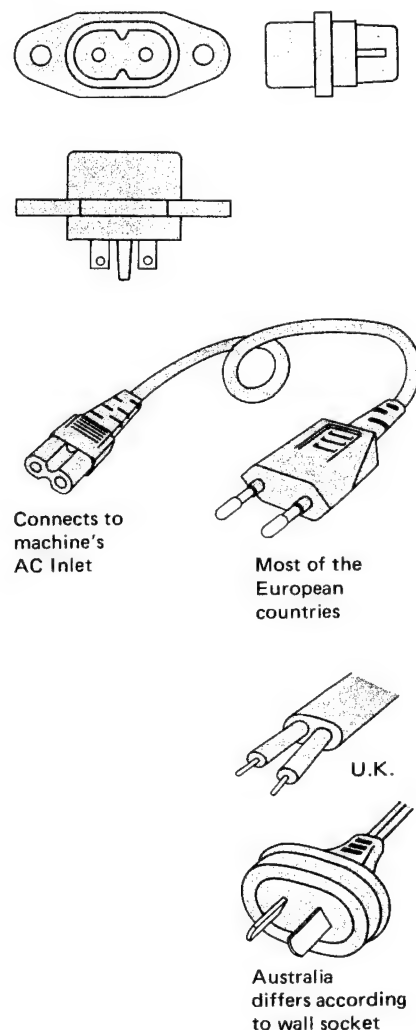
CLASS I



Picture 1
AC INLET
to be
installed
on machines

CLASS II

☐ This mark indicating double insulation will be attached to machine's rear panel



Picture 2
AC (mains)
cord

Parts List for AC (mains) Cord Set

Standard		Description	Type of AC Inlet	Parts No.
Class I	CEE	Cord Set CEE (3 cores)	3P	EW302993
	BEAB	Cord Set BEAB (3 cores)	3P	EW302994
	SAA	Cord Set SAA (3 cores)	3P	EW302996
	U/T	Cord Set U/T (3 cores)	3P	EW302646
Class II	CEE	Cord Set CEE (2 cores)	2P	EW638144
	BEAB	Cord Set BEAB (2 cores)	2P	EW302995
	SAA	Cord Set SAA (2 cores)	2P	EW302991
	U/T	Cord Set U/T (2 cores)	2P	EW302899

1. RECOMMENDED SPARE PARTS LIST

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

Parts No.	Description	Notes
BA326286	Mute & Pre Amp PCB Comp. AT-S06	
BA326294	Power Supply PCB Comp. AT-S06	
BA326292	Synthesizer PCB Comp. AT-S06	
BA326289	Tuner PCB Comp. AT-S06 (C)	CSA, AAL
BA326288	Tuner PCB Comp. AT-S06 (U)	U/T, CEE, UK, SAA
BT327080	△ Trans Power AT-S06T 40	CEE
BT327079	△ Trans Power AT-S06T-30	CSA, AAL
BT327081	△ Trans Power AT-S06T-50	UK, SAA
BT327078	△ Trans Power AT-S06T-70	U/T
BT44137	Coil Balum 75 ohms/300 ohms	
BT293398	Coil IFT RMC-42246BCH 468.0KC	
BT327067	Coil IFT RMC-44357Z 460.0KC	
BT327062	Coil VARI 2 RWR-4425N	
EC616342	C S-Fix H CTY122D33 1.5-16	
EC315346	C S-Fix H ECV-1ZW50X32E 5.0-5.5	
ED309341	D Germanium 1K34A	
ED309341	D Germanium 1K34A	
ED322184	D LED SLP-152D RED	
ED322772	D LED SLP-155D-01 RED	
ED322215	D LED SLP-251D GRN	
ED322773	D LED SLP255D-01 GRN	
ED315365	D Silicon DS131B 200/1.8A	
ED315366	D Silicon DS132B 200/1.8A	
ED327057	D Silicon H DS442X	
ED624903	D Silicon 1S2473	
ED224526	D Silicon 10D1 100/1.0A	
ED325090	D Varactor KV1225X 3 Throw	
ED315367	D Zener H WZ-050	
ED327098	D Zener H WZ-061	
ED510772	D Zener H WZ-120	
ED327042	D Zener H WZ-140	
ED237960	D Zener H WZ-150	
ED310578	D Zener H WZ-177	
ED315372	D Zener H WZ-300	
ED322809	D Zener WZ-081	
EE328144	ANT Bar AT-S06 MW	
EE327052	Frontend FD616U15 87-109MC	
EF300597	△ Fuse FST3100 T 250V 0.25A	CEE, UK, SAA
EF695766	△ Fuse SEMKO T 250V 0.31A	CEE, UK, SAA
EF668474	△ Fuse SEMKO T 250V 0.4CA	CEE, UK, SAA
EF309389	△ Fuse TSC A 250V 0.40A	U/T

Parts No.	Description	Notes
EF309388	△ Fuse TSC A 250V 0.80A	U/T
EF315334	△ Fuse TSC 125V 0.25A	CSA, AAL
EF306088	△ Fuse TSC 125V 0.31A	CSA, AAL
EF308848	△ Fuse TSC 125V 0.40A	CSA, AAL
EI327063	IC AT-300-A	
EI293185	IC LA-1240	
EI322248	IC LA1231N	
EI327061	IC LA2101	
EI322185	IC LA3380 (B)	
EI315491	IC LB1405S	
EI326702	IC NJM78M05A	
EI573838	IC TA7060P	
EI327060	IC TA7061AP	
EI322599	IC TA75458S	
EI313797	IC TC4001BP	
EI304657	IC TC4011BP	
EI306727	IC TC4013BP	
EI315312	IC TC4023BP	
EI310036	IC TC4066BP	
EI306727	IC TC4069UBP	
EI327065	IC TC4508BP	
EI315379	IC TC5066BP	
EI315385	IC TC5501P	
EI327064	IC TC9125P	
EI315381	IC TD6102P	
EI327066	IC TD62504	
EI327074	OSC X'TAL HC-18/U 9.000000MC	
EJ301513	△ Inlet S-I6453 E 2P	CEE, UK, SAA
EJ324119	Din J TCS1080-01-101 L 8P	
EM327075	IND FLD FIP9A11A Charactor	
EO327088	Coil DET 1 R228CEL-1087	
EO327076	Coil DET 2 251CE-1012FEM	
EO243977	Coil Fix 1 FL07H 1.00MH J	
EO328137	Coil Fix 2 NI-0036 2.20UH	
EO315401	Coil IFT CFMA-014 460.0KC	CSA, AAL
EO325117	Coil IFT CFMA-042 459.0KC	U/T, CEE, UK, SAA
EO325089	Coil OSC 2 RWR-44277N	
EO322241	Coil VARI 1 CANS-3700Z 15.00MH	
ER322271	Filter Ceramic CFM2-459AL 0.459MC	
ER315409	Filter Ceramic CFM2-460AL 0.460MC	
ER315408	Filter Ceramic SFA10.7MF5 10.700MC	

Parts No.	Description	Notes
ER315406	Filter Ceramic SFE10.7MLKA 10.700MC	
ER322181	Filter LC LP 208BLRC-3415N	
ER322237	Filter LC LP 209BLRG-3368N	
ER327092	R CE L H 10W 111K	
ES310839	△ SW Push SDG1P-E 01-1E	U/T, CEE, UK, SAA
ES664222	△ SW Push SDG5P001 02 UC	CSA, AAL
ES323241	SW Slide SW0525-01-010 1-02-02	
ES323240	SW Slide 12156 1-01-02N	
ES323367	SW TACTO KEC10001	
ET323232	FET 2SK19 (Y)	
ET230534	FET 2SK30A (Y)	
ET322244	TR 2SA608K-NP (F)(G)	
ET323348	TR 2SB507 (D)(E)(F)	
ET322598	TR 2SB632K (E)(F)	
ET327085	TR 2SC1583 (F)(G)	
ET316171	TR 2SC536K-NP (E)(F)	
ET316643	TR 2SC536K-NP (F)(G)	
ET618873	TR 2SC930 (E)(F)	
ET328265	TR 2SC930 (F)	
ET452531	TR 2SD313 (E)(F)	
ET631877	TR 2SD400K (D)(E)	
ET310148	TR 2SD612K (E)(F)	
EV618131	R S-Fix H CR19R 3P 0.50W 103	
EV315416	R S-Fix H D8 3P 103	
EV483388	R S-Fix H SR19R 3P 0.15W 103	
EV380215	R S-Fix H SR19R 3P 0.15W 104	
EV560136	R S-Fix H V10K8-4-2 3P 203	
EV323213	R S-Fix H V10K8-4-2 3P 302	
EV327090	VR Rotary 16P10X1A B104	
EV323226	VR Rotary 16P20X10 B103	
EW322400	△ AC Cord 2 Cores GTBS-2F/KS-15 B	UK
EW306428	△ AC Cord 2 Cores KP-205A, VFF UCJ	U/T
EW315767	△ AC Cord 2 Cores KP-419C/KS-15 E	CEE
EW322401	△ AC Cord 2 Cores KP-560/S-15 S	SAA
EW328245	△ AC Cord 2 Cores KP-8/SPT-1 105C UC	CSA, AAL
EZ631945	Strain Relief SR-4N-4	U/T, CSA, AAL

2. TUNER P.C BOARD (ATS-6001) BLOCK

Symbol No.	Parts No.	Description	Schematic No.	Symbol No.	Parts No.	Description	Schematic No.
2-1	BA326288	Tuner PCB Comp. AT-S06 (U) (U/T,CEE,UK,SAA)		2-T8	BT293398	Coil IFT RMC-42246BCH 468.0KC	23-1-276
2-2	BA326289	Tuner PCB Comp. AT-S06 (C) (CSA, AAL)		2-T9	EO322241	Coil VARI 1 Cans-3700Z 15.00MH	23-1-386
2-IC1	EI573838	IC TA7060P	45-8-97	2-FL1 to 5	ER315406	Filter Ceramic SFE10.7MLKA 10.700MC	53-1-167
2-IC2	EI322248	IC LA1231N	45-8-443	2-FL6,7	ER315408	Filter Ceramic SFA10.7MF5 10.700MC	53-1-169
2-IC3	EI327060	IC TA7061AP	45-8-505	2-FL8	ER322237	Filter LC LP 209BLRG-3368N 23-1-384	
2-IC4	EI310036	IC TC4066BP	45-8-289	2-FL9, 10	ER322181	Filter LC LP 208BLRC-3415N 23-1-385	
2-IC5	EI322185	IC LA3380 (B)	45-8-413	2-FL11	ER322271	Filter Ceramic CFM2-459AL 0.459MC (U/T,CEE,UK, SAA)	53-1-184
2-IC6	EI327061	IC LA2101	45-8-500	2-FL11	ER315409	Filter Ceramic CFM2-460AL 0.460MC (CSA, AAL)	53-1-174
2-IC7	EI293185	IC LA1240	45-8-220	2-R2	ER322591	R CB H SNP FS RDS 1/4W 101J	35-11-30
2-IC8	EI315491	IC LB1405S	45-8-365	2-R9	ER322591	R CB H SNP FS RDS 1/4W 101J	35-11-30
2-IC9	EI573838	IC TA7060P	45-8-97	2-R12	ER322591	R CB H SNP FS RDS 1/4W 101J	35-11-30
2-TR2,3	ET618873	TR 2SC930 (E) (F)	45-1-185	2-R26	ER322591	R CB H SNP FS RDS 1/4W 101J	35-11-30
2-TR4	ET323232	FET 2SK19 (Y)	45-12-3	2-R51	ER322591	R CB H SNP FS RDS 1/4W 101J	35-11-30
2-TR5 to 7	ET618873	TR 2SC930 (E) (F)	45-1-185	2-R57	ER325114	R CB H SNP FS RDS 1/4W 330J	35-11-30
2-TR8	ET230534	FET 2SK30A (Y)	45-12-4	2-R72	ER322591	R CB H SNP FS RDS 1/4W 101J	35-11-30
2-TR9,10	ET316643	TR 2SC536K-NP (F) (G)	45-1-362	2-R73	ER325114	R CB H SNP FS RDS 1/4W 330J	35-11-30
2-TR11, 12	ET328265	TR 2SC930 (F)	45-1-185	2-R189	ER322591	R CB H SNP FS RDS 1/4W 101J	35-11-30
2-TR13, 14	ET316171	TR 2SC536K-NP (E) (F)	45-1-362	2-R206	ER322591	R CB H SNP FS RDS 1/4W 101J	35-11-30
2-TR15	ET322244	TR 2SA608K-NP (F) (G)	45-1-375	2-R244, 245	ER322591	R CB H SNP FS RDS 1/4W 101J	35-11-30
2-TR16, 17	ET316171	TR 2SC536K-NP (E) (F)	45-1-362	2-R247	ER322591	R CB H SNP FS RDS 1/4W 101J	35-11-30
2-TR18	ET327085	TR 2SC1583 (F) (G)	45-1-392	2-R249, 250	ER322591	R CB H SNP FS RDS 1/4W 101J	35-11-30
2-TR20, 21	ET322244	TR 2SA608K-NP (F) (G)	45-1-375	2-R257, 258	ER325114	R CB H SNP FS RDS 1/4W 330J	35-11-30
2-TR22	ET316171	TR 2SC536K-NP (E) (F)	45-1-362	2-R260	ER322591	R CB H SNP FS RDS 1/4W 101J	35-11-30
2-TR23	ET322244	TR 2SA608K-NP (F) (G)	45-1-375	2-R265	ER322591	R CB H SNP FS RDS 1/4W 101J	35-11-30
2-TR24 to 32	ET316171	TR 2SC536K-NP (E) (F)	45-1-362	2-C60	EC672287	C STY V 511J 50.0DC (U/T, CEE, UK, SAA)	24-11-3
2-TR33	ET323232	FET 2SK19 (Y)	45-12-3	2-C60	EC328266	C STY V F05 CQ09S 751J 50.0DC (CSA, AAL)	24-11-18
2-TR34 to 36	ET618873	TR 2SC930 (E) (F)	45-1-185	2-C61	EC672287	C STY V 511J 50.0DC (U/T, CEE, UK, SAA)	24-11-3
2-TR37 to 42	ET316171	TR 2SC536K-NP (E) (F)	45-1-362	2-C61	EC328266	C STY V F05 CQ09S 751J 50.0DC (CSA, AAL)	24-11-18
2-TR43	ET631877	TR 2SD400K (D) (E)	45-1-205	2-C69	EC435690	C STY V 561J 50.0DC	24-11-3
2-TR44 to 48	ET316171	TR 2SC536K-NP (E) (F)	45-1-362	2-C72	EC313534	C EC V F05 NP 04D 100M 16.0DC	24-17-31
2-D1 to 4	ED309314	D Germanium 1K34A	45-3-45	2-C79	EC315335	C EC V F05 NP 04D 4R7M 25.0DC	24-17-31
2-D5 to 12	ED327057	D Silicon H DS442X	45-3-71	2-C111	EC327077	C STY V F05 500 4100G 50.0DC	24-11-14
2-D13	ED510772	D Zener H WZ-120	45-6-67	2-3	EE327052	Frontend FD616U15 87- 109MC	57-2-58
2-D14, 15	ED309341	D Germanium 1K34A	45-3-45				
2-D16 to 20	ED327057	D Silicon H DS442X	45-3-71				
2-D21 to 23	ED325090	D Varactor KV1225X 3 Throw	45-3-70				
2-D24, 25	ED327057	D Silicon H DS442X	45-3-71				
2-D26	ED327098	D Zener H WZ-061	45-6-67				
2-VC1,2	EC616342	C S-Fix H CTY122D33 1.5-16	24-2-32				
2-SW1	ES323241	SW Slide SW0525-01-010 1-02-02	25-3-182				
2-SW2	ES323240	SW Slide 12156 1-01-02N	25-3-181				
2-TM1	EJ323242	Terminal W/Screw T5701 S 3P	32-1-114				
2-J1	EJ323243	Terminal UC-0028 P 3P	32-1-113				
2-J2	EJ323248	Socket Jumper W-D0608 8P	31-1-253				
2-VR1	EV483388	R S-Fix H SR19R 3P 0.15W 103	36-19-10				
2-VR2,3	EV380215	R S-Fix H SR19R 3P 0.15W 104	36-19-10				
2-VR4,5	EV560136	R S-Fix H V10K8-4-2 3P 203	36-10-250				
2-VR6	EV618131	R S-Fix H CR19R 3P 0.50W 103	36-28-4				
2-VR7	EV483388	R S-Fix H SR19R 3P 0.15W 103	36-19-10				
2-VR8	EV380215	R S-Fix H SR19R 3P 0.15W 104	36-19-10				
2-VR9	EV315416	R S-Fix H D8 3P 103	36-10-280				
2-L1	EO328137	Coil Fix 2 NI-0036 2.20UH	23-1-396				
2-L2	EO243977	Coil Fix 1 FL07H 1.00MH J	23-1-3				
2-T1	BT444137	Coil Balum 75 Ohms/ 300 Ohms	23-1-129				
2-T2	EO327076	Coil DET 2 251CE-1012FEM	23-1-430				
2-T3	EO327088	Coil DET 1 R228CEL-1087	23-1-433				
2-T5	BT327062	Coil VARI 2 RWR-4425N	23-1-431				
2-T6	EO325089	Coil OSC 2 RWR-44277N	23-1-420				
2-T7	EO325117	Coil IFT CFMA-042 459.0KC (U/T,CEE,UK,SAA)	23-1-389				
2-T7	EO315401	Coil IFT CFMA-014 460.0KC (CSA, AAL)	23-1-319				

When ordering parts, please quote Parts Number, Description and Model Number.

3. SYNTHESIZER P.C BOARD (ATS-6002) BLOCK

Symbol No.	Parts No.	Description	Schematic No.
3-1	BA326292	Synthesizer PCB Comp. AT-S06	
3-IC1	EI304657	IC TC4011BP	45-8-232
3-IC2	EI313797	IC TC4001BP	45-8-348
3-IC5	EI315381	IC TD6102P	45-8-362
3-IC6	EI327064	IC TC9125P	45-8-502
3-IC7	EI306727	IC TC4013BP	45-8-265
3-IC8	EI313797	IC TC4001BP	45-8-348
3-IC9	EI306726	IC TC4069UBP	45-8-263
3-IC10	EI304657	IC TC4011BP	45-8-232
3-IC11	EI327065	IC TC4508BP	45-8-503
3-IC12, 13	EI315379	IC TC5066BP	45-8-355
3-IC14	EI327066	IC TD62504	45-8-504
3-IC15	EI315385	IC TC5501P	45-8-360
3-IC16	EI327063	IC AT-300-A	45-8-501
3-IC17	EI306726	IC TC4069UBP	45-8-263
3-IC18	EI315312	IC TC4023BP	45-8-361
3-TR1 to 5	ET322244	TR 2SA608K-NP (F) (G)	45-1-375
3-TR5 to 8	ET316643	TR 2SC536K-NP (F) (G)	45-1-362
3-TR9	ET230534	FET 2SK30A (Y)	45-12-4
3-TR10, 11	ET316643	TR 2SC536K-NP (F) (G)	45-1-362
3-TR12	ET230534	FET 2SK3CA (Y)	45-12-4
3-TR13, 14	ET316643	TR 2SC536K-NP (F) (G)	45-1-362
3-TR15 to 23	ET322244	TR 2SA608K-NP (F) (G)	45-1-375
3-TR24	ET323232	FET 2SK19 (Y)	45-12-3
3-TR25, 26	ET316643	TR 2SC536K-NP (F) (G)	45-1-362
3-TR27	ET322244	TR 2SA608K-NP (F) (G)	45-1-375
3-D1 to 24	ED327057	D Silicon H DS442X	45-3-71
3-D25	ED327098	D Zener H WZ-061	45-6-67
3-VC1	EC315346	C S-Fix H ECV-1ZW50X32E 5.0-55	24-2-48
3-J1	EJ315377	Socket IC S-I2457 P 42P	31-1-244
3-J2	EJ315370	Socket IC S-I2458#03 P 22P	31-1-243
3-J3	EJ323064	Socket Jumper W-D0612 12P	31-1-253
3-J4	EJ323265	Socket Jumper W-D0607 7P	31-1-253
3-J5	EJ323248	Socket Jumper W-D0608 8P	31-1-253
3-J6	EJ323065	Socket Jumper W-D0603 3P	31-1-253
3-J7	EJ323248	Socket Jumper W-D0608 8P	31-1-253
3-L1 to 6	EO328137	Coil Fix 2 NI-0036 2.20μH	23-1-396
3-T1	BT327067	Coil IFT RMC-44357Z 460.0KC	23-1-432
3-X1	EI327074	OSC X'TAL HC-18/U 9.000000MC	53-1-202
3-R36	ER325114	R CB H SNP FS RDS 1/4W 330J	35-11-30
3-R65	EI327068	R Comp 01-0071	35-11-34
3-R66	EI327069	R Comp 01-0069	35-11-35
3-R67	EI327072	R Comp 01-0067	35-11-37
3-R68	EI327070	R Comp 01-0068	35-11-36
3-R69, 70	EI327073	R Comp 01-0070	35-11-38
3-R77	EI327089	R Comp 01-0087	35-11-42
3-C16	EC301432	C SA V 2R2K 16.0DC	24-19-2
3-C23	EC327096	C STY V F05 CQ09S 222J 50.0DC	24-11-18
3-2	EM327075	IND FLD FIP9A11A Charactor	59-1-8

4. SYNTHESIZER P.C BOARD (B) (ATS-6032) BLOCK

Symbol No.	Parts No.	Description	Schematic No.
4-IC1,2	EI304657	IC TC4011BP	45-8-232
4-P1	EJ328531	Plug Micro Connector 163740-7 7P	42-1-177
4-C1	EC305445	C TT V D 1ROM 16.00DC	24-15-12

5. SYNTHESIZER P.C BOARD (C) (ATS-6033) BLOCK

Symbol No.	Parts No.	Description	Schematic No.
5-IC1 to 3	EI306727	IC TC4013BP	45-8-265
5-J1	EJ328531	Plug Micro Connector 163740-7 7P	42-1-177

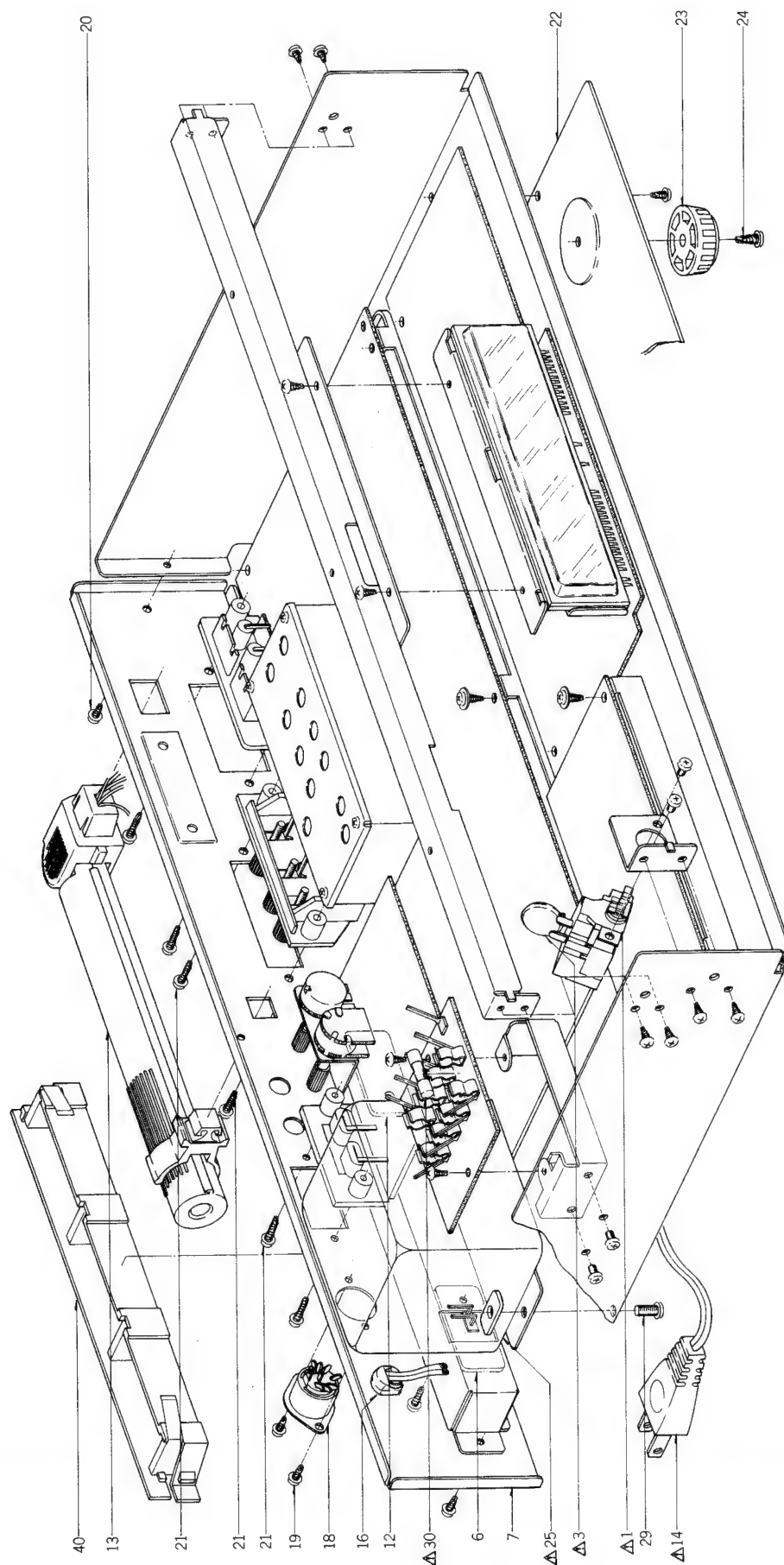
6. POWER SUPPLY P.C BOARD (ATS-6003) BLOCK

Symbol No.	Parts No.	Description	Schematic No.
6-1	BA326294	Power Supply PCB Comp. AT-S06	
6-IC1	EI326702	IC NJM78M05A	45-8-496
6-TR1	ET452531	TR 2SD313 (E) (F)	45-1-105
6-TR2	ET310148	TR 2SD612K (E) (F)	45-1-308
6-TR3	ET316643	TR 2SC536K-NP (F) (G)	45-1-362
6-TR4	ET322598	TR 2SB632K (E) (F)	45-1-374
6-TR5	ET323348	TR 2SB507 (D) (E) (F)	45-1-376
6-TR6,7	ET316643	TR 2SC536K-NP (F) (G)	45-1-362
6-D1	ED315365	D Silicon DS131B 200/1.8A	45-3-55
6-D2	ED315366	D Silicon DS132B 200/1.8A	45-3-56
6-D3	ED315365	D Silicon DS131B 200/1.8A	45-3-55
6-D4,5	ED224526	D Silicon 10D1 100/1.0A	45-2-11
6-D6	ED327057	D Silicon H DS442X	45-3-71
6-D7	ED237960	D Zener H WZ-150	45-6-67
6-D8	ED322809	D Zener WZ-081	45-6-67
6-D9	ED224526	D Silicon 10D1 100/1.0A	45-2-11
6-D10 to 13	ED327057	D Silicon H D S442X	45-3-71
6-D14	ED315367	D Zener H WZ-050	45-6-67
6-D15	ED315372	D Zener H WZ-300	45-6-67
6-D16	ED327042	D Zener H WZ-140	45-6-67
6-D17, 18	ED224526	D Silicon 10D1 100/1.0A	45-2-11
6-D19	ED310578	D Zener H WZ-177	45-6-67
6-VR1	EV323213	R S-Fix H V10K8-4-2 3P 302	36-10-250
6-R1	ER327087	R CT P SNP 10W 111K	35-16-88
6-R3	ER324480	R CB H SNP FS RDS 1/4W 470J	35-11-30
6-R11	ER306127	R CB H SNP FS RDS 1/2W 681J	35-11-27
6-R13	ER306805	R CB H SNP RDS 1/2W 101J	35-11-27
6-R902	ER327092	R CE L H 10W 111K	35-16-90
6-C1	EC325109	C EC V CUT SM 102M 50.00DC	24-12-49
6-C16 to 21	EC204671	C CE V E 103P 500DC	24-5-66

7. MUTE AND PRE AMP P.C BOARD (ATS-6006) BLOCK

Symbol No.	Parts No.	Description	Schematic No.
7-1	BA326286	Mute & Pre Amp PCB Comp. AT-S06	
7-IC1	EI322599	IC TA75458S	45-8-415
7-IC2	EI310036	IC TC4066BP	45-8-289
7-TR to 6	ET316643	TR 2SC536K-NP (F) (G)	45-1-362
7-TR7	ET322244	TR 2SA608K-NP (F) (G)	45-1-375
7-TR8,9	ET316643	TR 2SC536K-NP (F) (G)	45-1-362
7-D1 to 6	ED327057	D Silicon H DS442X	45-3-71
7-D8	ED327057	D Silicon H DS442X	45-3-71
7-J1	EJ323227	Pin J TS727-A P 2P	31-5-160
7-VR1	EV327090	VR Rotary 16P10X1A B104	36-6-47
7-VR2	EV323226	VR Rotary 16P20X10 B103	36-22-61
7-VR3	EV380215	R S0-Fix H SR19R 3P 0.15W 104	36-19-10
7-R11	ER327710	R CB H SNP FS RD 1/4W 151J	35-11-30

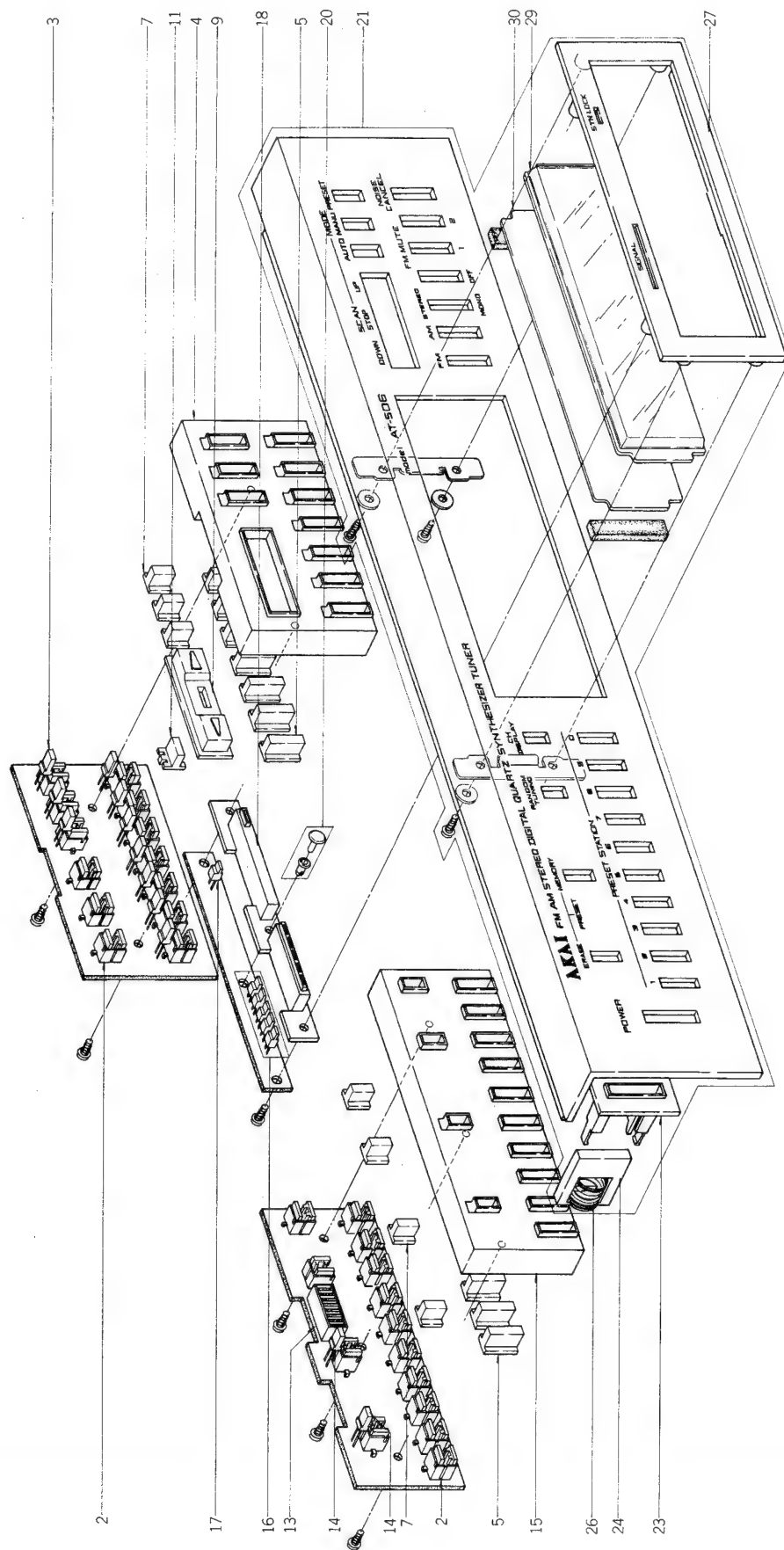
8. ASSEMBLY BLOCK



ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.
POWER SW ASSY			
8-1	ES310839	△ SW Push SDG1P-E 01-1 E (U/T, CEE, UK, SAA)	25-5-310
8-2X	ES664222	△ SW Push SDG5P001 02 UC (CSA, AAL)	25-5-202
8-3	EC320548	△ C CE V F 103Z 250AC (U/T)	24-5-112
8-4X	EC314688	△ C CE V FZ 103P 125AC (CSA, AAL)	24-5-87
8-5X	EC32782	△ C MP V 472M 250AC (CEE, UK, SAA)	24-9-134
BATTERY P.C BOARD BLOCK			
8-6	EA315427	Battery P.C Board	ATS-8039
REAR PANEL BLOCK			
8-7	SP327032	Rear Panel (U-2) (U/T)	ATV-4015
8-8X	SP327033	Rear Panel (C-2) (CSA)	ATV-4015
8-9X	SP327034	Rear Panel (A-2) (AAL)	ATV-4015
8-10X	SP327035	Rear Panel (E-3) (CEE)	ATV-4015
8-11X	SP327037	Rear Panel (B, S-3) (UK, SAA)	ATV-4015
8-12	EA323159	Battery P.C Board	ATV-4007
8-13	EE328144	ANT Bar AT-S06 MW	55-1-69
8-14	EW306428	△ AC Cord 2 Cores KP-205A, VFF UCJ (U/T)	26-3-64
8-15X	EW328245	△ AC Cord 2 Cores KP-8/SPT-1 105C UC (CSA, AAL)	26-3-79
8-16	EZ631945	Strain Relief SR-4N-4 (U/T, CSA AAL)	2-7-49
8-17X	EJ301513	△ Inlet S-I6453 E 2P (CEE, UK, SAA)	31-1-200
8-18	EJ324119	DIN J TCS1080-01-101 L 8P	31-1-255
8-19	ZS447761	T2BR30X06STL BNI	
ASSEMBLY BLOCK			
8-20	ZS319460	T2BR30X06STL BZN Prolection	7-1-69
8-21	ZS522865	T2BR30X12STL BNI	
8-22	SP327009	Bottom Blade	ATS-6009
8-23	SA-311742	Round Foot	PC-2032
8-24	ZS565942	T2PAN40X08STL CMT	
8-25	BT327078	△ Trans Power AT-S06T-70 (U/T)	38-4-880
8-26X	BT327079	△ Trans Power AT-S06T-30 (CSA, AAL)	38-4-881
8-27X	BT327080	△ Trans Power AT-S06T 40 (CEE)	38-4-882
8-28X	BT327081	△ Trans Power AT-S06T-50 (UK, SAA)	38-4-883
8-29	ZS413201	PAN40X08STL CMT	
8-30	EF309388	△ Fuse TSC A 250V 0.80A (U/T) (F1)	39-1-64
8-31X	EF309389	△ Fuse TSC A 250V 0.40A (U/T) (F2,3)	39-1-64
8-32X	EF315334	△ Fuse TSC 125V 0.25A (CSA, AAL) (F1, 2)	39-1-65
8-33X	EF308848	△ Fuse TSC 125V 0.40A (CSA, AAL) (F3)	39-1-65
8-34X	EF308848	△ Fuse TSC 125V 0.40A (CSA, AAL) (F4)	39-1-65
8-35X	EF306088	△ Fuse TSC 125V 0.31A (CSA, AAL) (F5)	39-1-65
8-36X	EF300597	△ Fuse FST3100 T 250A 0.25A (CEE, UK, SAA) (F1,2)	39-1-61
8-37X	EF668474	△ Fuse SEMKO T 250V 0.40A (CEE, UK, SAA) (F3)	39-1-53
8-38X	EF668474	△ Fuse SEMKO T 250V 0.40A (CEE, UK, SAA) (F4)	39-1-53
8-39X	EF695766	△ Fuse SEMKO T 250V 0.31A (CEE, UK, SAA) (F6)	39-1-53
8-40	TA314294	Battery Case ASSY PS-200T	13-2-64

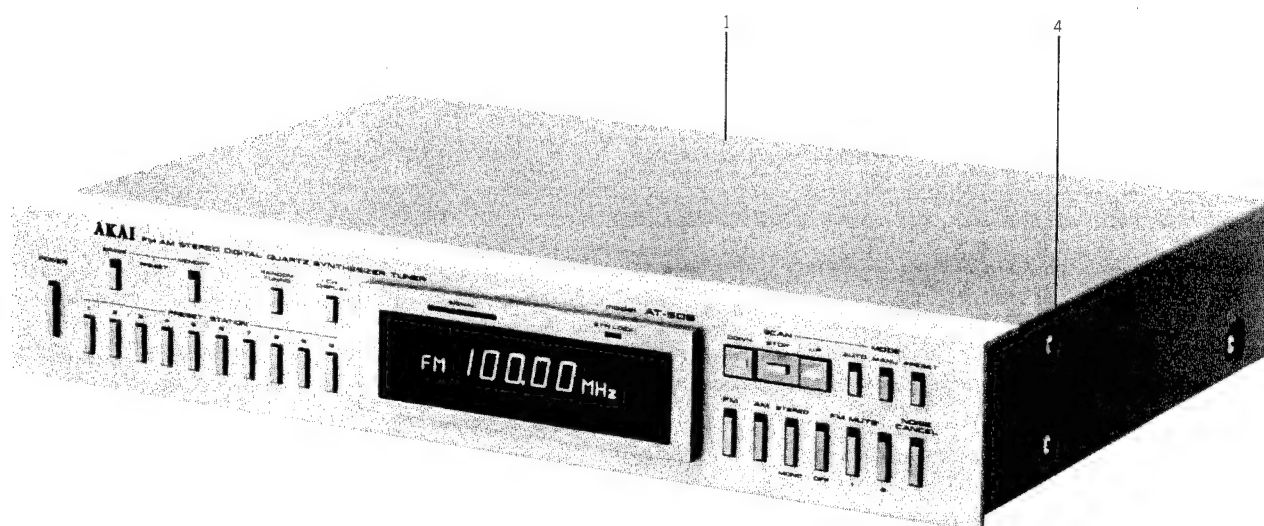
9. FRONT PANEL BLOCK



FRONT PANEL BLOCK

Ref. No.	Parts No.	Description	Schematic No.
SW P.C BOARD (A) BLOCK			
9-1X	ED624903	D Silicon IS2473 (D1TO3)	45-3-28
9-2	ES323367	SW Tacto KEC10001	25-9-9
9-3	ED322773	D LED SLP255D-01 GRN	45-15-37
9-4	SE327019	Button Escutcheon (A)	ATS-6021
9-5	SB327021	Button (A)	ATS-6023
9-6X	SB327022	Button (A-BL)	ATS-6023
9-7	SB327023	Button (B)	ATS-6023
9-8X	SB327024	Button (B-BL)	ATS-6023
9-9	SB327026	Button (C)	ATS-6024
9-10X	SB327027	Button (C-BL)	ATS-6024
9-11	SB327028	Button (D)	ATS-6025
9-12X	SB327029	Button (C-BL)	ATS-6025
SW P.C BOARD (B) BLOCK			
9-13	EJ315310	Socket CIS 163681-6 8P	31-4-29
9-14	ED322772	D LED SLP-155D-01 RED	45-15-38
9-15	SE327020	Button Escutcheon (B)	ATS-6022
LED P.C BOARD BLOCK			
9-16	ED322184	D LED SLP-152D RED	45-15-40
9-17	ED322215	D LED SLP-251D GRN	45-15-39
9-18	SE327017	LED Escutcheon	ATS-6020
9-19X	SE327018	LED Escutcheon (BL)	ATS-6020
9-20	ZW698308	RV NYL30X055 BL	2-7-54
FRONT PANEL BLOCK			
9-21	BD326301	Front Panel BLK AT-S06	
9-22X	BD326302	Front Panel BLK AT-S06-BL	
9-23	SE322578	Escutcheon (A)	ATK-2013
9-24	SB322576	Button (A)	ATK-2012
9-25X	SB322577	Button (A-BL)	ATK-2012
9-26	ZG322579	Spring (A)	ATK-2014
9-27	SE327015	FLD Escutcheon	ATS-6018
9-28X	SE327016	FLD Escutcheon (BL)	ATS-6018
9-29	SZ326811	Bar Meter Plate	PAW-6008
9-30	SZ327040	Bar Meter Filter (C)	PAW-6009

10. FINAL ASSEMBLY BLOCK



FINAL ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.
10-1	BC322209	Upper Cover (AAL)	ATK-2034
10-2X	BC322212	Upper Cover (UK)	ATK-2034
10-3X	BC322210	Upper Cover (A-BL) (A Only)	ATK-2034
10-4	ZS322570	ST BID40X08STL N13	
10-5X	ZS322580	ST BID40X08STL BNI	
10-6X	ZS319460	T2BR30X06STL BZN Projection	7-1-69
10-7X	ZW305013	RV POP32 (AAL)	7-6-9
10-8X	EW315767	△ AC Cord 2 Cores KP-419C/ KS-15 E (CEE)	26-3-72
10-9X	EW322400	△ AC Cord 2 Cores GTBS-2F/ KS-15 B (UK)	26-3-73
10-10X	EW322401	△ AC Cord 2 Cores KP-560/ S-15 S (SAA)	26-3-77
10-11X	EE244776	ANT Dipole AFM-1B	55-1-41
10-12X	EW314984	Cord RR-165 PIN-PIN/2P	26-8-21

INDEX

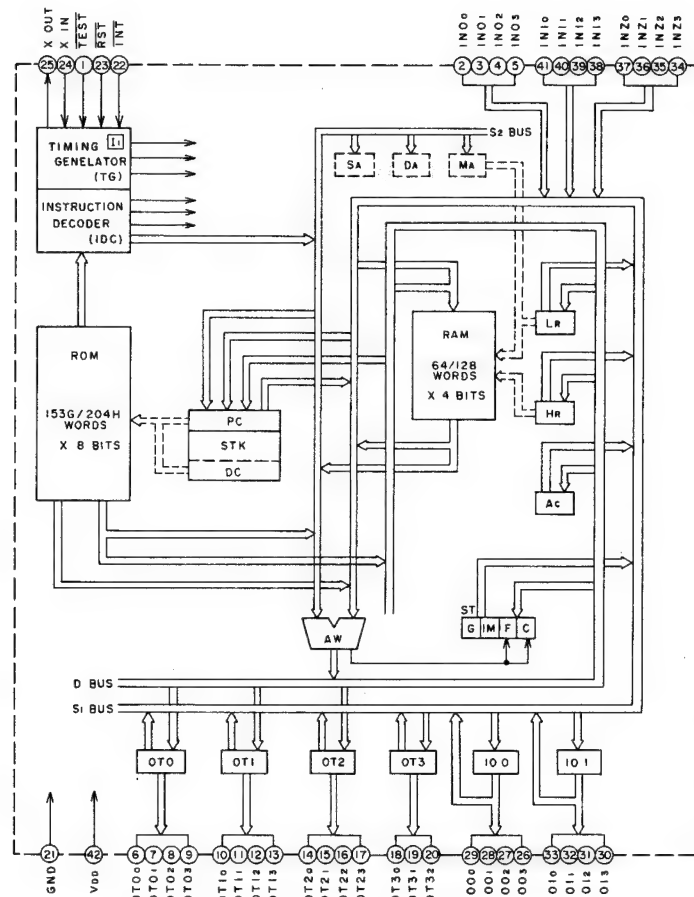
Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.
BA326286	7-1	ED327057	3-D1 to 24	EJ315370	3-J2	ET230534	3-TR12	SB327024	9-8X
BA326288	2-1	ED327057	6-D6	EJ315377	3-J1	ET310148	6-TR2	SB327026	9-9
BA326289	2-2	ED327057	6-D10 to 13	EJ323064	3-J3	ET316171	2-TR13, 14	SB327027	9-10X
BA326292	3-1	ED327057	7-D1 to 6	EJ323065	3-J6	ET316171	2-TR16, 17	SB327028	9-11
BA326294	6-1	ED327057	7-D8	EJ323227	7-J1	ET316171	2-TR22	SB327029	9-12X
BC322209	10-1	ED327098	2-D26	EJ323242	2-TM1	ET316171	2-TR24 to 32	SE322578	9-23
BC322210	10-3X	ED327098	3-D25	EJ323243	2-J1	ET316171	2-TR37 to 42	SE327015	9-27
BC322212	10-2X	ED510772	2-D13	EJ323248	2-J2	ET316171	2-TR44 to 48	SE327016	9-28X
BD326301	9-21	ED624903	9-1X	EJ323248	3-J5	ET316643	2-TR9, 10	SE327017	9-18
BD326302	9-22X	EE244776	10-11X	EJ323248	3-J7	ET316643	3-TR5 to 8	SE327018	9-19X
BT293398	2-T8	EE327052	2-3	EJ323265	3-J4	ET316643	3-TR10, 11	SE327019	9-4
BT327062	2-T5	EE328144	8-13	EJ324119	8-18	ET316643	3-TR13, 14	SE327020	9-15
BT327067	3-T1	EF300597	8-36X	EJ328531	4-P1	ET316643	3-TR25, 26	SP327009	8-22
BT327078	8-25	EF306088	8-35X	EJ328531	5-J1	ET316643	6-TR3	SP327032	8-7
BT327079	8-26X	EF308848	8-33X	EM327075	3-2	ET316643	6-TR6,7	SP327033	8-8X
BT327080	8-27X	EF308848	8-34X	EO243977	2-L2	ET316643	7-TR1 to 6	SP327034	8-9X
BT327081	8-28X	EF309388	8-30	EO315401	2-T7	ET316643	7-TR8, 9	SP327035	8-10X
BT444137	2-T1	EF309389	8-31X	EO322241	2-T9	ET322244	2-TR15	SP327037	8-11X
EA315427	8-6	EF315334	8-32X	EO325089	2-T6	ET322244	2-TR20, 21	SZ326811	9-29
EA323159	8-12	EF668474	8-37X	EO325117	2-T7	ET322244	2-TR23	SZ327040	9-30
EC204671	6-C16 to 21	EF668474	8-38X	EO327076	2-T2	ET322244	3-TR1 to 5	TA314294	8-40
EC301432	3-C16	EF695766	8-39X	EO327088	2-T3	ET322244	3-TR15 to 23	ZG322579	9-26
EC305445	4-C1	EI293185	2-IC7	EO328137	2-L1	ET322244	3-TR27	ZS319460	8-20
EC313534	2-C72	EI304657	3-IC1	EO328137	3-L1 to 6	ET322244	7-TR7	ZS319460	10-6X
EC314688	8-4X	EI304657	3-IC10	ER306127	6-R11	ET322598	6-TR4	ZS322570	10-4
EC315335	2-C79	EI304657	4-IC1,2	ER306805	6-R13	ET323232	2-TR4	ZS322580	10-5X
EC315346	3-VC1	EI306726	3-IC9	ER315406	2-FL1 to 5	ET323232	2-TR33	ZS413201	8-29
EC320548	8-3	EI306726	3-IC17	ER315408	2-FL6,7	ET323232	3-TR24	ZS447761	8-19
EC325109	6-C1	EI306727	3-IC7	ER315409	2-FL11	ET323348	6-TR5	ZS522865	8-21
EC327077	2-C111	EI306727	5-IC1 to 3	ER322181	2-FL9, 10	ET327085	2-TR18	ZS565942	8-24
EC327096	3-C23	EI310036	2-IC4	ER322237	2-FL8	ET328265	2-TR11, 12	ZW305013	10-7X
EC327382	8-5X	EI310036	7-IC2	ER322271	2-FL11	ET452531	6-TR1	ZW698308	9-20
EC328266	2-C60	EI313797	3-IC2	ER322591	2-R2	ET618873	2-TR2,3		
EC328266	2-C61	EI313797	3-IC8	ER322591	2-R9	ET618873	2-TR5 to 7		
EC435690	2-C69	EI315312	3-IC18	ER322591	2-R12	ET618873	2-TR34 to 36		
EC616342	2-VC1,2	EI315379	3-IC12, 13	ER322591	2-R26	ET631877	2-TR43		
EC672287	2-C60	EI315381	3-IC5	ER322591	2-R51	EV315416	2-VR9		
EC672287	2-C61	EI315385	3-IC15	ER322591	2-R72	EV323213	6-VR1		
ED224526	6-D4,5	EI315491	2-IC8	ER322591	2-R189	EV323226	7-VR2		
ED224526	6-D9	EI322185	2-IC5	ER322591	2-R206	EV327090	7-VR1		
ED224526	6-D17, 18	EI322248	2-IC2	ER322591	2-R244,245	EV380215	2-VR2,3		
ED237960	6-D7	EI322599	7-IC1	ER322591	2-R247	EV380215	2-VR8		
ED309341	2-D1 to 4	EI326702	6-IC1	ER322591	2-R249,250	EV380215	7-VR3		
ED309341	2-D14, 15	EI327060	2-IC3	ER322591	2-R260	EV483388	2-VR1		
ED310578	6-D19	EI327061	2-IC6	ER322591	2-R265	EV483388	2-VR7		
ED315365	6-D1	EI327063	3-IC16	ER324480	6-R3	EV560136	2-VR4,5		
ED315365	6-D3	EI327064	3-IC6	ER325114	2-R57	EV618131	2-VR6		
ED315366	6-D2	EI327065	3-IC11	ER325114	2-R73	EW306428	8-14		
ED315367	6-D14	EI327066	3-IC14	ER325114	2-R257,258	EW314984	10-12X		
ED315372	6-D15	EI327068	3-R65	ER325114	3-R36	EW315767	10-8X		
ED322184	9-16	EI327069	3-R66	ER327087	6-R1	EW322400	10-9X		
ED322215	9-17	EI327070	3-R68	ER327092	6-R902	EW322401	10-10X		
ED322772	9-14	EI327072	3-R67	ER327710	7-R11	EW328245	8-15X		
ED322773	9-3	EI327073	3-R69, 70	ES310839	8-1	EZ631945	8-16		
ED322809	6-D8	EI327074	3-X1	ES323240	2-SW2	SA311742	8-23		
ED325090	2-D21 to 23	EI327089	3-R77	ES323241	2-SW1	SB322576	9-24		
ED327042	6-D16	EI573838	2-IC1	ES323367	9-2	SB322577	9-25X		
ED327057	2-D5 to 12	EI573838	2-IC9	ES664222	8-2X	SB327021	9-5		
ED327057	2-D16 to 20	EJ301513	8-17X	ET230534	2-TR8	SB327022	9-6X		
ED327057	2-D24, 25	EJ315310	9-13	ET230534	3-TR12	SB327023	9-7		

SECTION 3

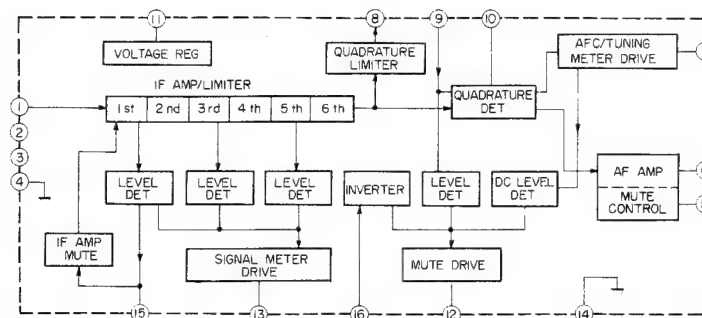
SCHEMATIC DIAGRAM

1. SCHEMATIC DIAGRAM OF ICs
2. AT-S06 NO. 3-1 1602040A CONNECTION DIAGRAM
3. AT-S06 NO. 3-2 1602041A TUNER SCHEMATIC DIAGRAM
4. AT-S06 NO. 3-3 1602042A SYNTHESIZER SCHEMATIC DIAGRAM

AT 300A



LA1231NS



The diagram shows a radio receiver circuit with the following components and connections:

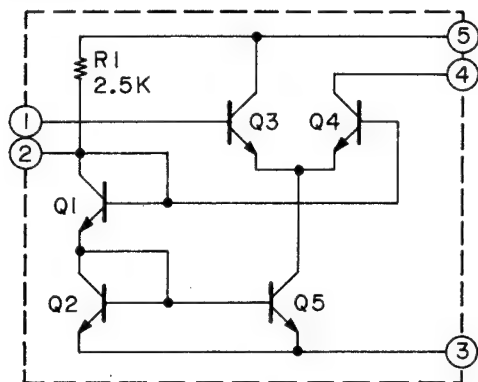
- RF AMP-1** and **RF AMP-2**: Two radio frequency amplifier stages.
- CONV**: A converter stage.
- IF AMP-1**, **IF AMP-2**, and **IF AMP-3**: Three intermediate frequency amplifier stages.
- DET**: A detector stage.
- AGC DRIVE** and **S. METER DRIVE**: Output stages for automatic gain control and signal strength measurement.

Numbered terminals (1-16) are distributed around the circuit:

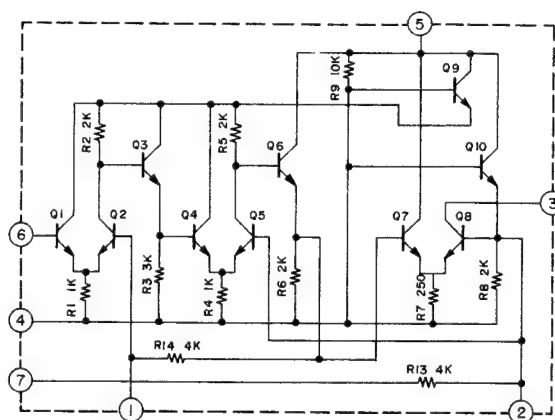
- Terminal 1**: Input to RF AMP-2.
- Terminal 2**: Input to RF AMP-1 and output of DET.
- Terminal 3**: Input to CONV.
- Terminal 4**: Input to RF AMP-2.
- Terminal 5**: Input to CONV.
- Terminal 6**: Input to CONV.
- Terminal 7**: Input to CONV.
- Terminal 8**: Input to IF AMP-2.
- Terminal 9**: Input to IF AMP-2.
- Terminal 10**: Input to SUB (Subsidiary).
- Terminal 11**: Input to IF AMP-3.
- Terminal 12**: Input to IF AMP-3.
- Terminal 13**: Input to IF AMP-3.
- Terminal 14**: Input to S. METER DRIVE.
- Terminal 15**: Input to S. METER DRIVE.
- Terminal 16**: Input to RF AMP-1.

The diagram shows a 5-stage current mirror circuit. The input stage consists of a differential pair of NMOS transistors (IN- and IN+) connected to a PMOS current source (Vcc OUT1) and a PMOS load (Vref). The output of the differential pair is connected to the gates of five NMOS transistors (COMP5 to COMP1). The gates of COMP5 and COMP4 are also connected to a PMOS current source (Vref) and a PMOS load (Vref). The gates of COMP3, COMP2, and COMP1 are connected to a PMOS current source (Vref) and a PMOS load (Vref). The sources of all NMOS transistors are connected to ground (GND). The drains of COMP5, COMP4, COMP3, and COMP2 are connected to a PMOS current source (Vref) and a PMOS load (Vref). The drain of COMP1 is connected to a PMOS current source (Vref) and a PMOS load (Vref). The output of the circuit is taken from the drain of COMP1 (D1).

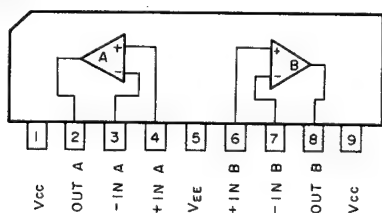
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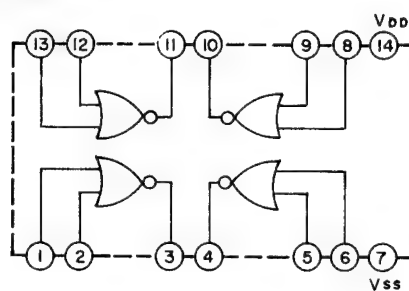
TA7061AP



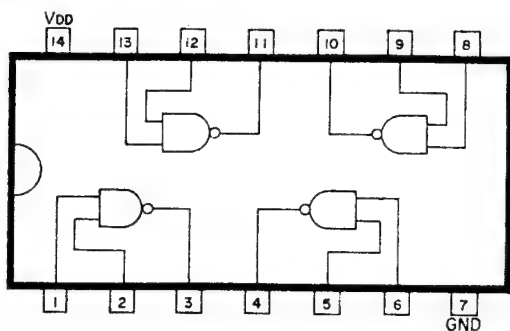
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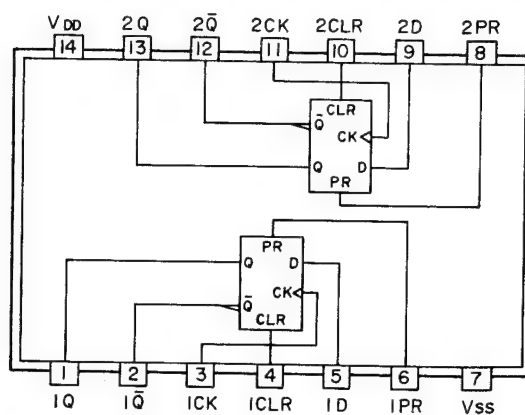
TC4001BP



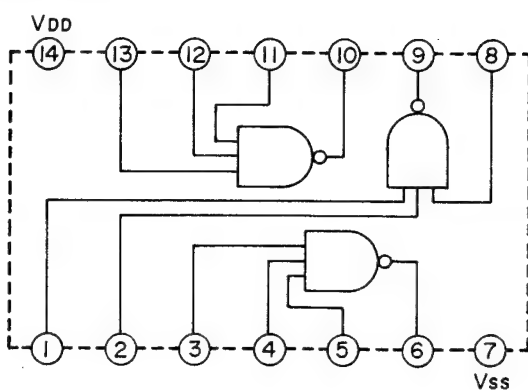
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TC4013BP



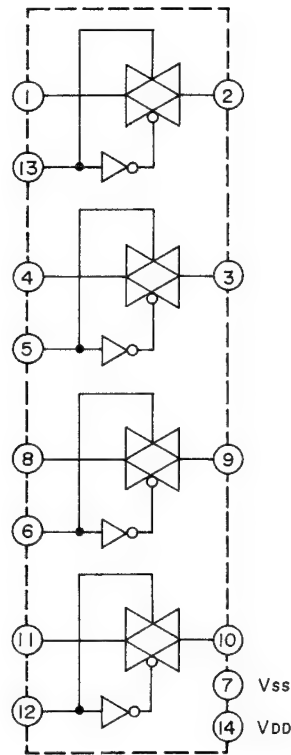
TC4023BP



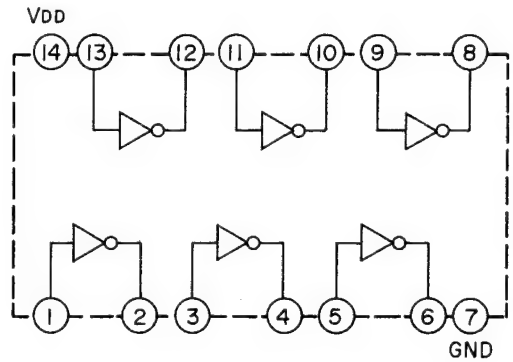
FUNCTION TABLE

INPUTS				OUTPUTS	
PRESET	CLEAR	CK	D	Q	Q̄
H	L	X	X	H	H
L	H	X	X	L	H
H	H	X	X	H	H
L	L	↑	L	L	H
L	L	↑	H	H	L
L	L	L	X	Q ₀	Q̄ ₀

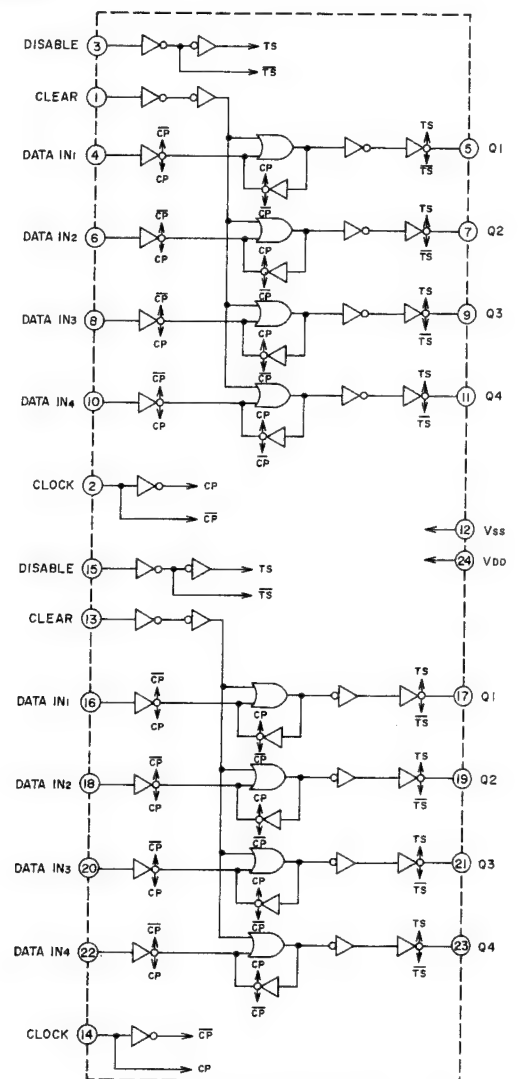
TC4066BP



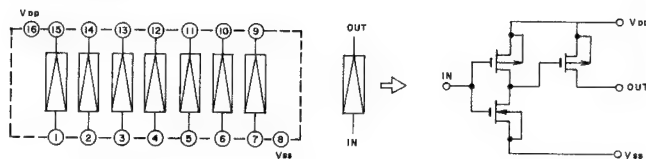
TC4069UBP



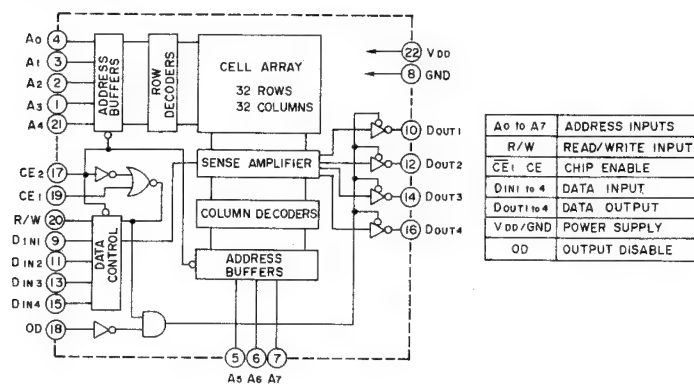
TC4508BP



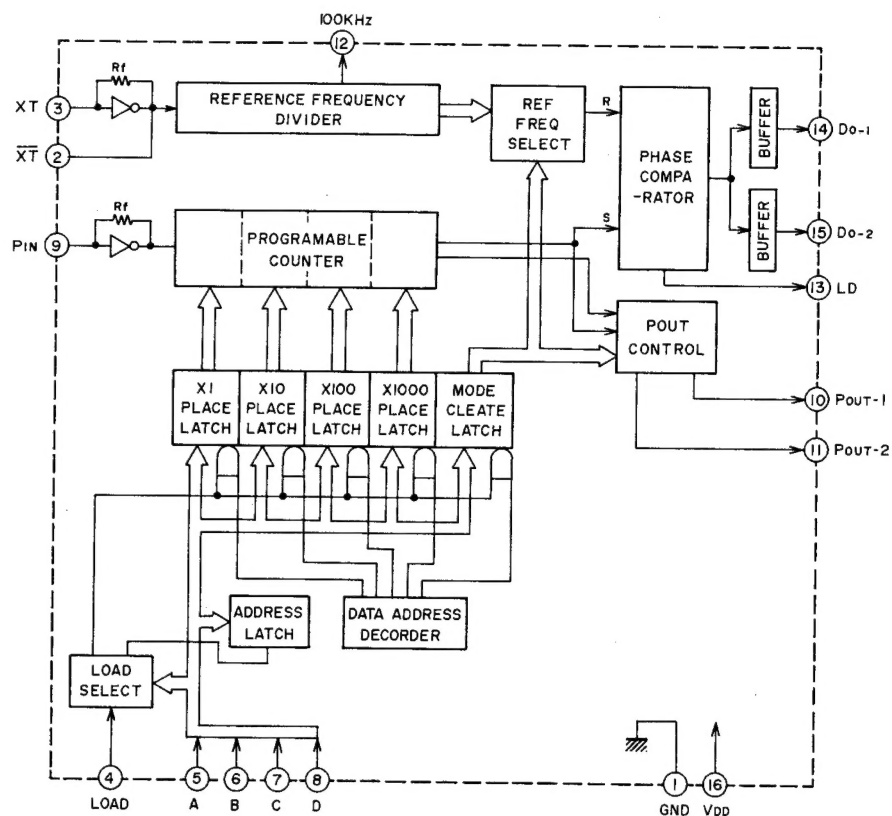
TC5066BP



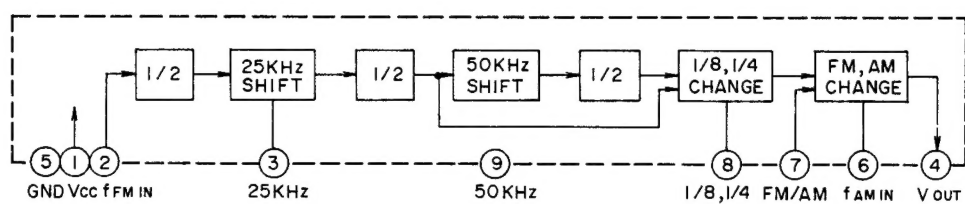
TC5501P



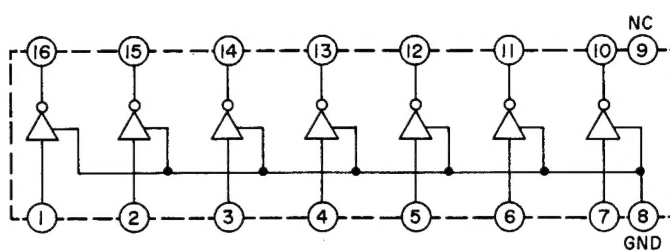
TC9125P

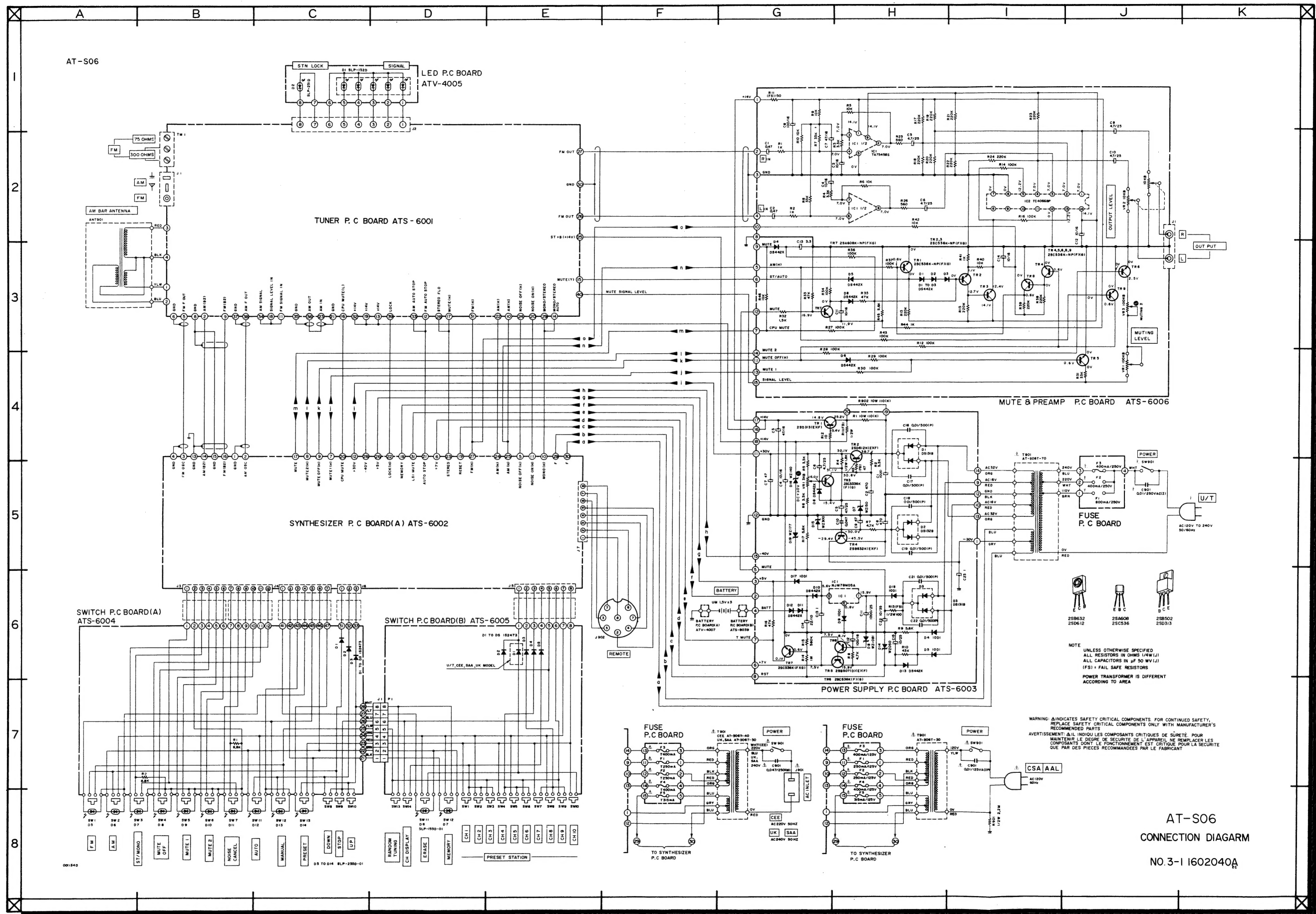


TD6102P



TD6250P





AT-S06
CONNECTION DIAGRAM
NO. 3-1 1602040A

